

ED33211
4.108 (M)

ED33211
2009/05/13

The information given within this parts book was correct at the time of printing and is subject to change without notice. Always refer to your local Perkins outlet for the latest information. Only fully trained personnel should carry out servicing of engines. Before working on any engine always refer to the correct user service and maintenance manual.

Always refer to your local Perkins outlet before purchasing any parts

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Introduction

The build list of your engine, found on the front page of this parts book, provides a unique reference to the components fitted to your engine; therefore this parts book is only applicable to this particular engine

Always quote your build list and engine serial number when contacting your Perkins outlet.

How to use your Parts Book

This parts book has been designed to provide you with all the information you need to identify parts to service your engine. There are several features within the book to make it easy to find the parts you require.

Front Page

This lists your build list number and the date of publication of this book

Symbol Descriptions

Provides a quick reference guide to the symbols used within the book.

Engine Breakdown

Use this to identify all the major sections of your engine and the relevant pages within the book.

Parts Lists & Illustrations

This section shows each major section of your engine broken down into individual part numbers along with an associated illustration for identifying the parts you require.

The illustrations used in this parts book are representational only and should only be used for identification purposes.

For fitting instructions please refer to your engine Service Manual.

Parts Index

Using either the part number or description of the part you require this section will help you locate the page within the **Parts Lists & Illustrations** section where the part appears.

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Engine Breakdown

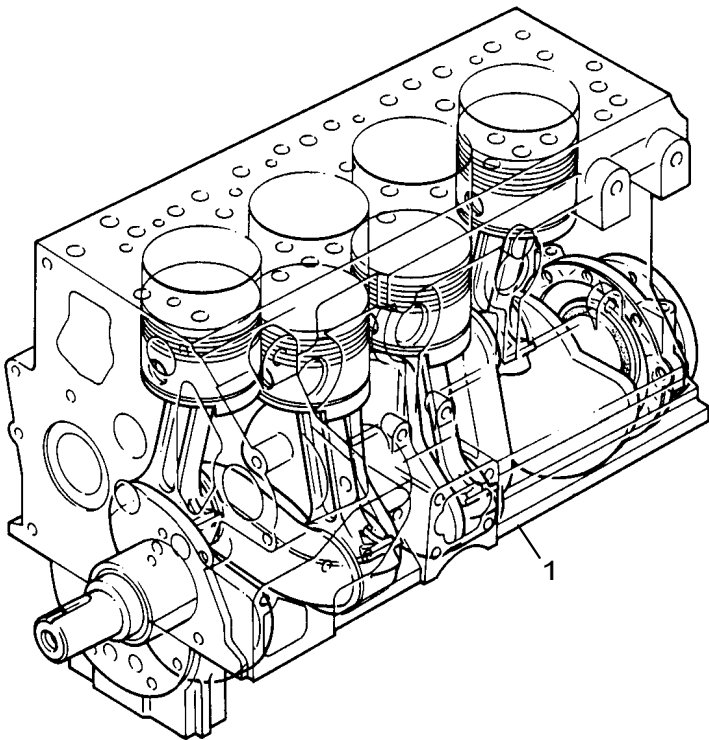
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Symbols and Notes

Symbol	Description
	From Engine Number
	Upto Engine Number
	Repairs and Replaces
	See Appropriate Section - Reference Number
	Alternative
	Order
	Remanufactured Part
	New for Old Part
	Number of Teeth
	Thickness
	Bottom
	Top
	Left Hand
	Right Hand
	Reference for Detailed Breakdown
	Other Service Options Available
	Cylinder Number
	See History Section

ACEE9001



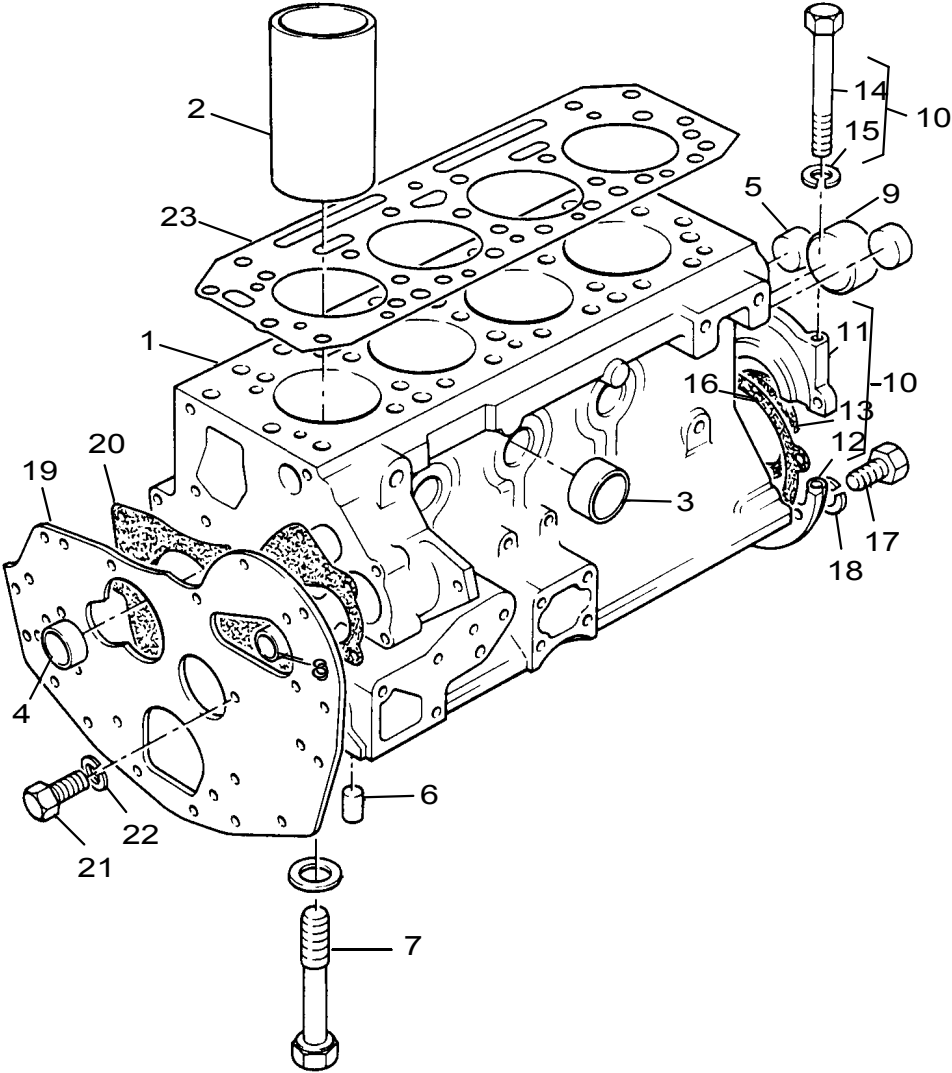
Short Engine		Plate A
		ACEE9001

Item	Part No.	References	Qty.	Description	Notes
1	ED39001		1	SHORT ENGINE	(A)
2	├		1	CYLINDER BLOCK	(B)
2	├		4	LINER	
2	├		1	CRANKSHAFT	
2	├		1	BEARING KIT	
2	├		4	PISTON	
2	├		4	PISTON RING KIT	
2	├		4	CONROD	
2	├		1	BEARING KIT	
2	├		4	THRUST WASHER	
2	├		1	SEAL	
2	└		1	HOUSING	

Footnotes	
(A)	ROPE SEAL
(B)	COMPLETE WITH PLUGS

●∞ ACHE0077

ACHE0067

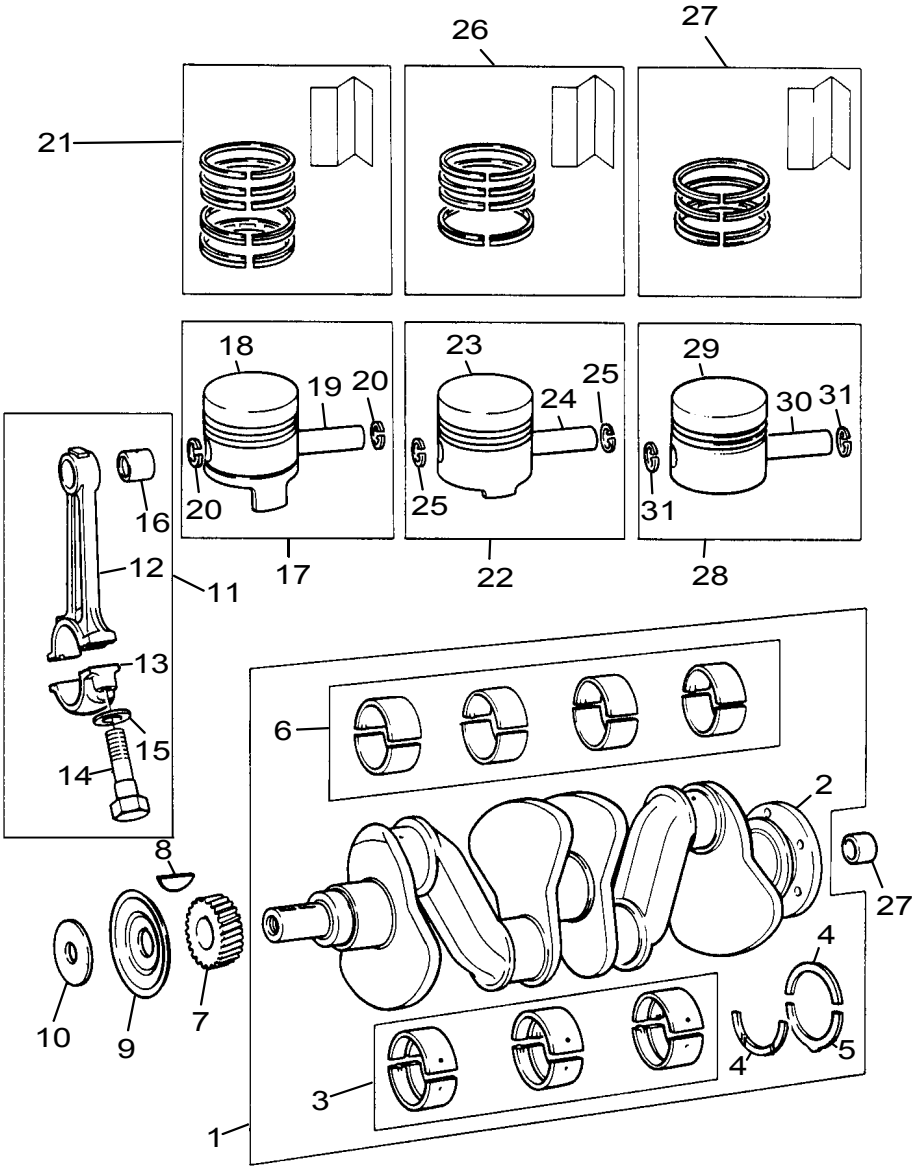


Cylinder Block		Plate A
● ACHE0077	ACHE0067	

Item	Part No.	References	Qty.	Description	Notes
1	ZZ50088	● ZZ50034	1	CYLINDER BLOCK KIT	
2	└ 31358117	⊗ b.	4	LINER - PRESS FIT	(A)
3	└ 0650563	⊗ b.	3	PLUG	
4	└ 0650710		2	PLUG	
5	└ 0650664	⊗ b.	1	PLUG	
6	└ 0350014		6	DOWEL	
7	└ 32166216		6	SCREW	
8	0650717		2	PLUG	
9	0650777		1	PLUG	
10	ZZ90043	● 90990	1	HOUSING KIT	
11	└	⇒ REF.11	1	HOUSING	
12	└	⇒ REF.11	1	HOUSING	
13	└ 36883115	⊗ a.	2	SEAL - REAR END OIL	
14	└ 0096238		2	BOLT	
15	└ 0920053		2	WASHER	
16	36826114		1	GASKET - REOS HOUSING	
17	0746259		6	SCREW	
18	0920053		6	WASHER	
19	36256717		1	PLATE	
20	0490740		1	GASKET	
21	0746254		4	SETSCREW	
22	0920053		4	WASHER	
23	36812134		1	GASKET	
History					
a.					
13	└ 36883107		2	REAR OIL SEAL	
b. General History Section					
2	└ 31358124	⊕ (+)0.010" ⊕ (+)0.25MM	X	LINER - OVERSIZE	(A) 0.010"0,25MM
3	└ 0650710		3	PLUG	
5	└ 0650692		1	PLUG	
Footnotes					
(A)	PRESS FIT				

●∞ ACHE0077

ACHE0067



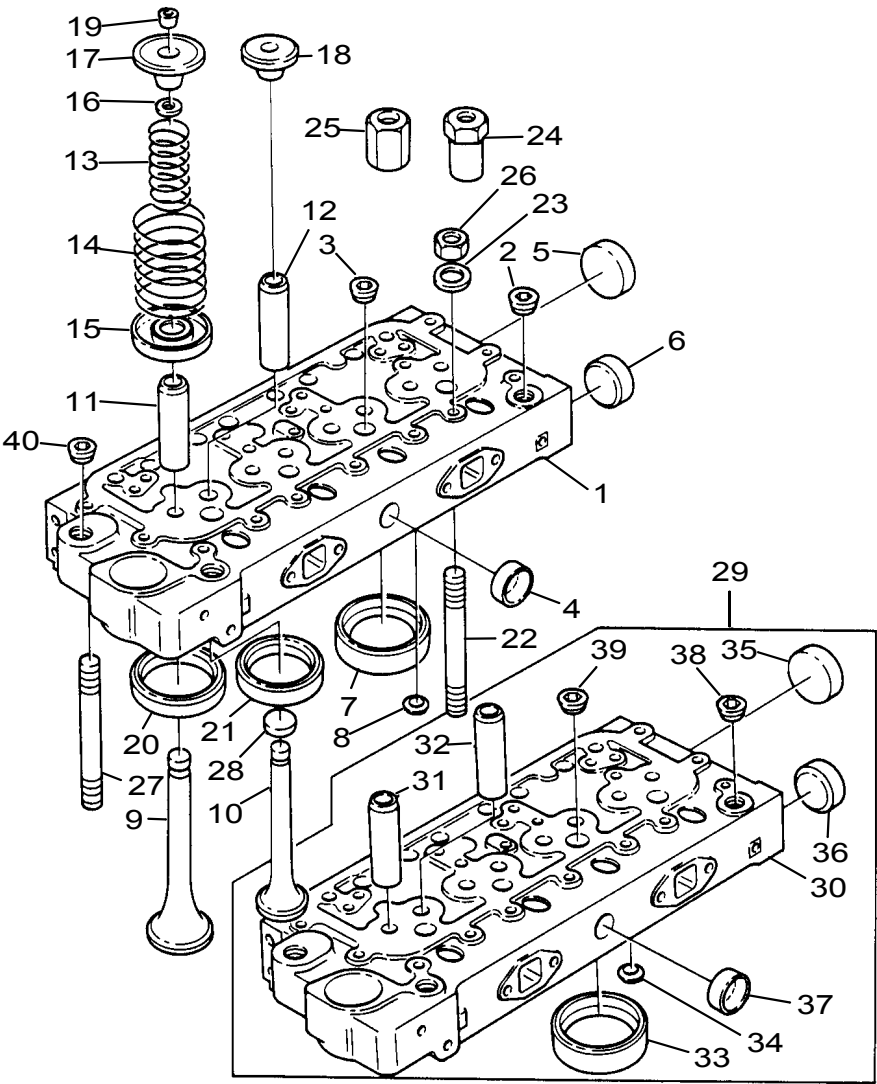
● ACHE0077

ACHE0067

Item	Part No.	References	Qty.	Description	Notes
1	ZZ90124	● U5BG0056 ● 84418	1	CRANKSHAFT KIT	
2		⇒ REF.1	1	CRANKSHAFT	
3	84992		1	MAIN BEARING KIT	(A)
3	84992A	$\frac{3}{4}$ (-)0.010"	X	MAIN BEARING KIT - U/S	(A)
3	84992B	$\frac{3}{4}$ (-)0.020"	X	MAIN BEARING KIT - U/S	(A)
3	84992C	$\frac{3}{4}$ (-)0.030"	X	MAIN BEARING KIT - U/S	(A)
4	0921120		2	THRUST WASHER	
4	0921120A	$\frac{3}{4}$ (+)0.007"	X	WASHER	
5	0921118		1	THRUST WASHER	
5	0921118A	$\frac{3}{4}$ (+)0.007"	X	WASHER	
6	85037		1	BIG END BEARING KIT	(A)
6	85037A	$\frac{3}{4}$ (-)0.010"	X	BIG END BRG KIT - U/S	(A)
6	85037B	$\frac{3}{4}$ (-)0.020"	X	BIG END BRG KIT - U/S	(A)
6	85037C	$\frac{3}{4}$ (-)0.030"	X	BIG END BRG KIT - U/S	(A)
7	31171245		1	CRANKSHAFT GEAR	
8	0500006		1	WOODRUFF KEY	
9		⦿ KBHE	1	FLANGE	
11	ZZ90005	● 83417	4	CON ROD ASSEMBLY	
12		⇒ REF.11	1	ROD	
13		⇒ REF.11	1	CAP	
14	0095314		2	SCREW	
15	33115121		2	WASHER	
16	31134145		1	SMALL END BUSH	
17	68380		4	PISTON KIT	(B)
17	68383		4	PISTON KIT	(C)
18		⇒ REF.17	1	PISTON	
19		⇒ REF.17	1	PIN	
20	2721124		2	CIRCLIP	
21	41158087		4	PISTON RING KIT	
Footnotes					
(A)	PRE-FINISHED				
(B)	UNTOPPED				
(C)	PRE-TOPPED				

● ACHE0077

ACHE0067



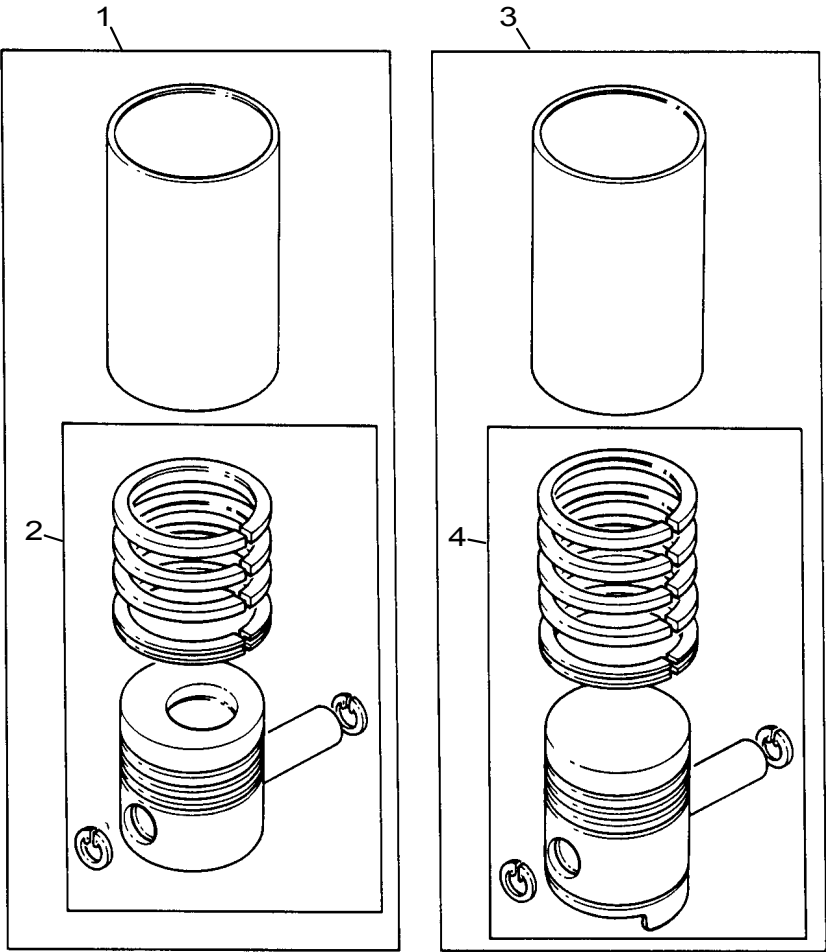
Cylinder Head		Plate A
● ACHE0077	ACHE0067	

Item	Part No.	References	Qty.	Description	Notes
1	ZZ80146	● ZZ80085 ● 89196 ↻	1	CYLINDER HEAD KIT	(A)
2	— 2431154		3	PLUG	
3	— 2431A054	● 0650586	4	PLUG	
4	— 0650692		1	PLUG	
5	— 0650710		1	PLUG	
6	— 0650713		1	PLUG	
7	— 37443591		4	INSERT	
8	— 0921249		4	WASHER	
9	— 0910064		4	INTAKE VALVE	
10	— 0910061		4	EXHAUST VALVE	
11	— 3313E001		4	GUIDE	
12	— 33261723		4	VALVE GUIDE	
13	— 31744129		8	VALVE SPRING INNER	
14	— 31745118		8	VALVE SPRING OUTER	
15	— 0921117		8	SEAT	
16	— 0640116		4	SEAL - VALVE STEM	
17	— 0150143		4	CAP	
18	— 0150129		4	CAP	
19	— 0230001		8	VALVE COLLET	(B)
29	— ZZ80143	● ZZ80043	1	CYLINDER HEAD KIT	(C)
30	—	⇒ REF 29	1	HEAD	
31	— 3313E001		4	GUIDE	
32	— 33261723		4	VALVE GUIDE	
33	— 37443591		4	INSERT	
34	— 0921249		4	WASHER	
35	— 0650713		1	PLUG	
36	— 0650710		1	PLUG	
37	— 0650692		1	PLUG	
38	— 2431154		3	PLUG	
39	— 2431A054	● 0650586	4	PLUG	
20	33124424		4	INSERT	
21	33123411		4	INSERT	
22	32524148		18	STUD	
23	33221317		12	NUT	
24	33531117		6	NUT	
26	33115411		18	WASHER	
Service Options					
1	ZZ80146P		1	CYLINDER HEAD KIT - EXCH	

Footnotes	
(A)	MAJOR ASSEMBLY-SEE ITEM 29 FOR MINOR ASSEMBLY
(B)	SERVICED IN PAIRS
(C)	MINOR ASSEMBLY

●∞ ACHE0077

ACHE0067

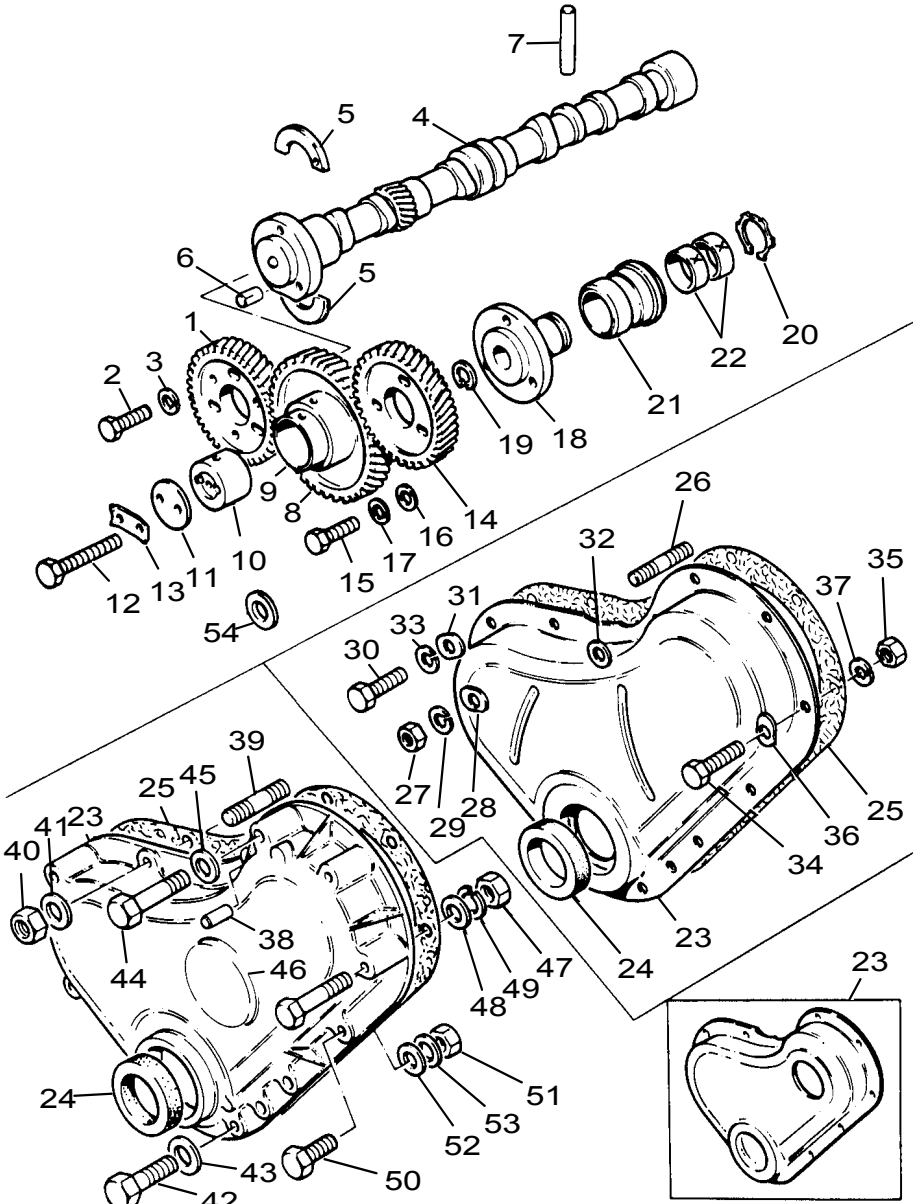


Crankshaft, Pistons & Connecting Rods		Plate B
●∞ ACHE0077	ACHE0067	

Item	Part No.	References	Qty.	Description	Notes
3	U5MK0061		X	LINER KIT	
4	└68505		1	PISTON AND RING KIT	

●∞ ACHE0077

ACHE0067



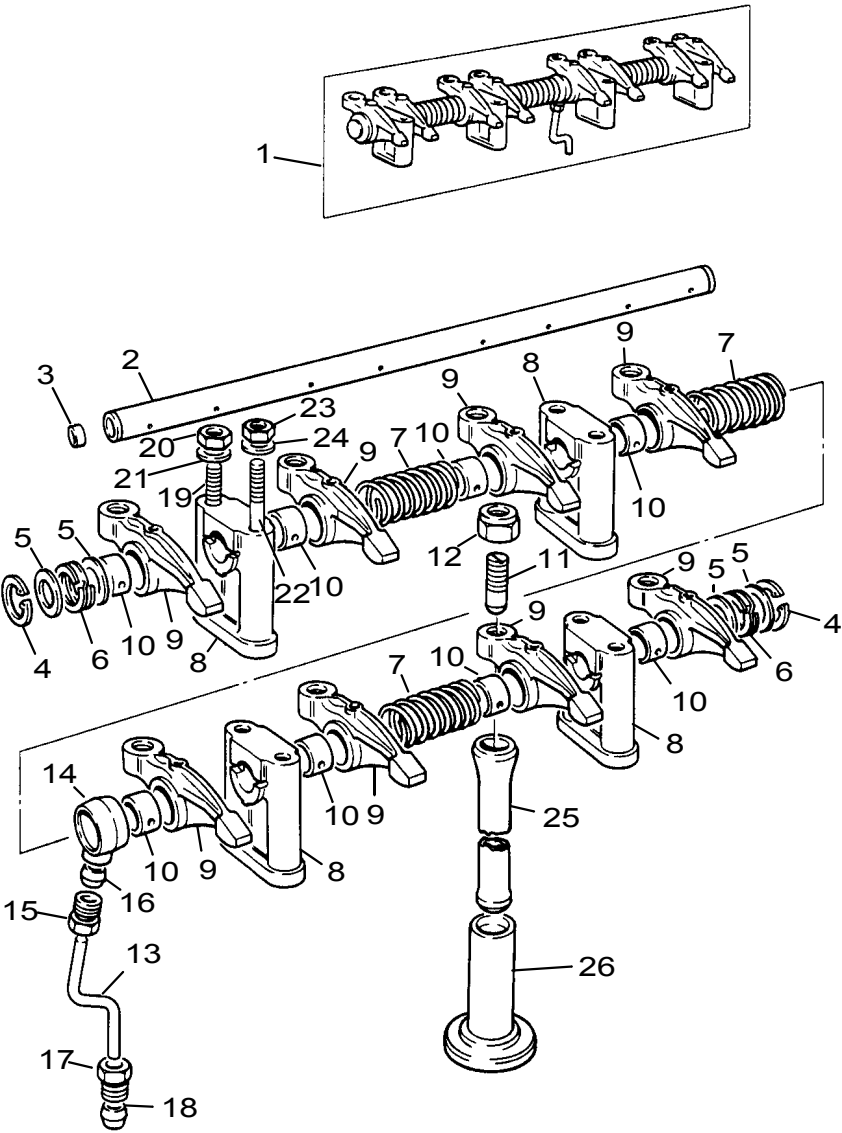
● ACHE0077

ACHE0067

Item	Part No.	References	Qty.	Description	Notes
1	31171541		1	CAMSHAFT GEAR	
2	0746255		3	SETSCREW	
3	0920053		3	WASHER	
4	31415303		1	CAMSHAFT	
5	36178509		2	THRUST PLATE	
6	2116053	● 0610844	1	DOWEL	
7	0700279		1	PUSHROD	
8	41115036		1	IDLER	
9	└	⇒ REF.8	1	BUSH	
10	33426516		1	HUB	
11	0941044		1	PLATE	
12	0746461		2	SCREW	
13	0921159		1	WASHER	
14	31171542		1	FUEL INJECTION PUMP GEAR	
15	0746355		3	SCREW	
16	0920003		3	WASHER	
17	0920053		3	WASHER	
18	33472496		1	HUB	
20	2724436		1	CIRCLIP	
21	41425781		1	HOUSING	
22	└ 2511447		2	IDLER GEAR BUSH	
23	37161105		1	CASE	
24	0730098		1	SEAL - FRONT END OIL	
25	36813145		1	GASKET - TIMING CASE	
26	0826201		1	STUD	
27	0576002		1	NUT	
28	36151505		1	WASHER	
29	0920053		1	WASHER	
30	0746255		8	SETSCREW	
31	36151505		6	WASHER	
32	0920003		1	WASHER	
33	0920053		8	WASHER	
34	0746052		4	BOLT	
35	0576001		4	NUT	
36	36151506		3	WASHER	
37	0920052		4	WASHER	

● ACHE0077

ACHE0067

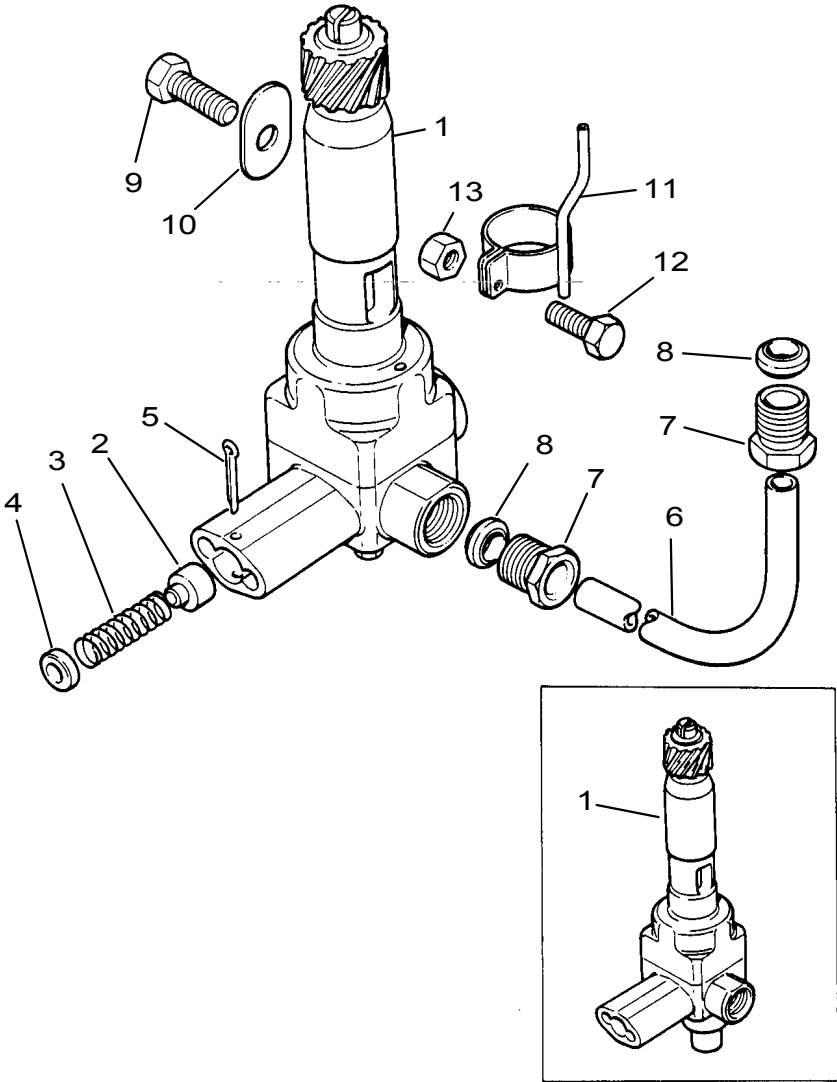


Rocker Shaft		Plate A
●∞ ACHE0077		ACHE0067

Item	Part No.	References	Qty.	Description	Notes
1	ZZ90052	●∞ 93005	1	ROCKER SHAFT ASSEMBLY	
2	└─ZZ90048	●∞ 55286	1	ROCKER SHAFT ASSY - MINOR	
3	└─└─0650507		2	PLUG	
4	└─0170033		2	CIRCLIP	
5	└─0920485		4	WASHER	
6	└─0921122		2	WASHER	
7	└─0780261		3	ROCKER SHAFT SPRING	
8	└─0102202		4	BRACKET	
9	└─41151472		8	LEVER	
10	└─└─0050132		1	ROCKER ARM BUSH	
11	└─0720790		8	SCREW	
12	└─0576151		8	NUT	
13	└─34414122		1	OIL PIPE	
14	└─0201318		1	CONNECTION	
15	└─0571351		1	NUT	
16	└─0566002		1	OLIVE	
17	0571351		1	NUT	
18	0566002		1	OLIVE	
19	0826250		6	STUD	
20	2211223		6	NUT	
21	0920003		6	WASHER	
22	0825219		2	STUD	
23	2211223		2	NUT	
24	0920003		2	WASHER	
25	31434306		8	ROD	
26	31434152		8	TAPPET	

● ACHE0077

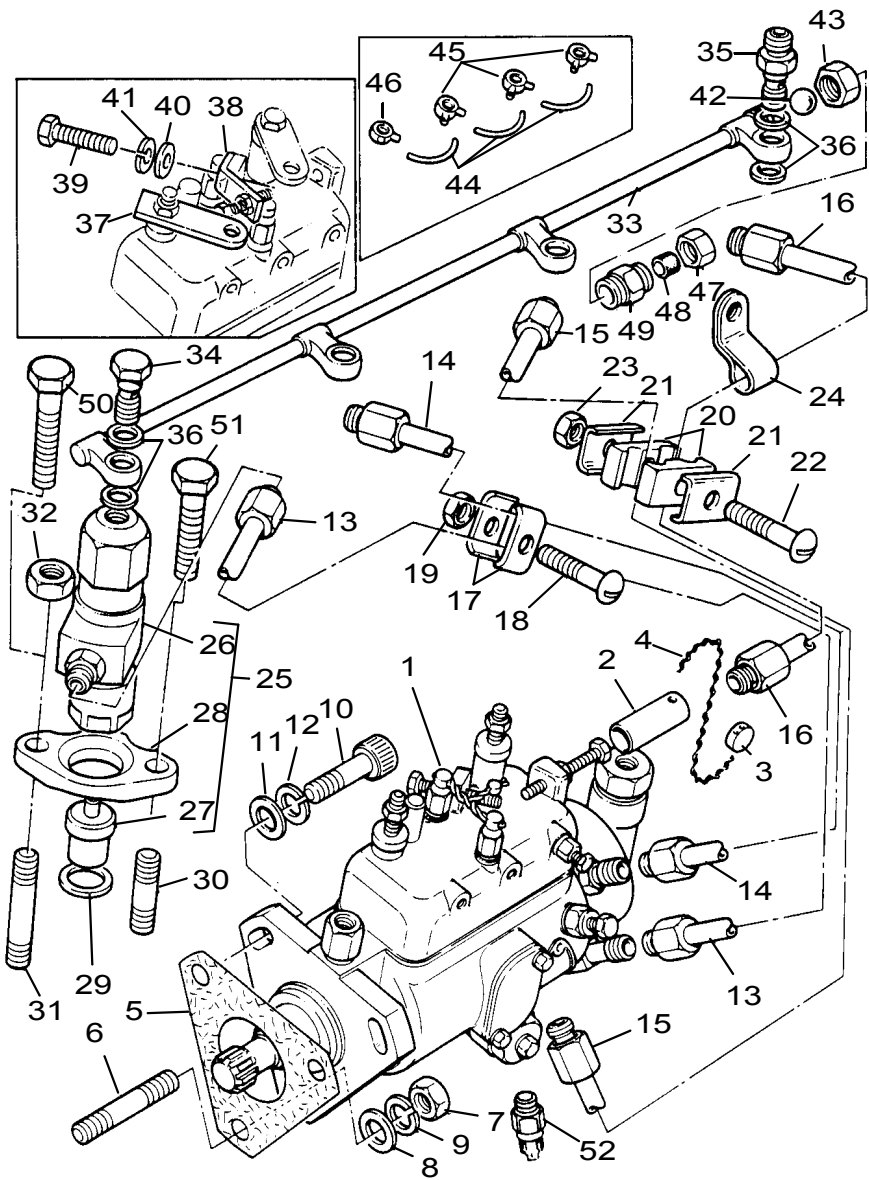
ACHE0067



Lubricating Oil Pump & Delivery Housing		Plate A
●∞ ACHE0077	ACHE0067	

Item	Part No.	References	Qty.	Description	Notes
1	41314089		1	OIL PUMP	
2	└─32712715		1	PLUNGER	
3	└─31742128		1	SPRING	
4	└─33157122		1	CAP	
5	└─0610011		1	PIN	
6	0623293		1	OIL PIPE	
7	0571352		2	NUT	
8	0566007		2	OLIVE	
9	0746201		1	SCREW	
10	36151507		1	WASHER	

AFHE1245

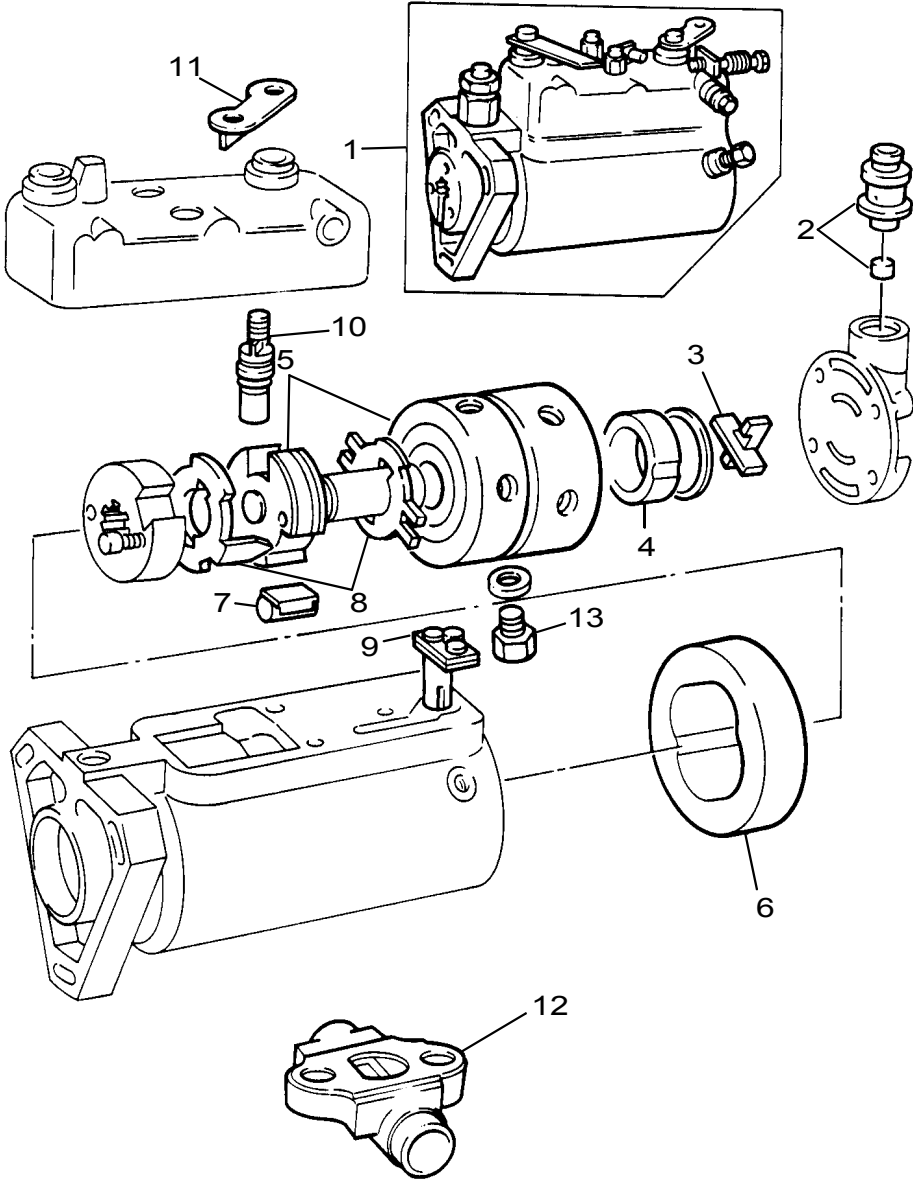


Fuel Injection Equipment (Diesel)		Plate A
		AFHE1245

Item	Part No.	References	Qty.	Description	Notes
1	37895		1	FUEL INJECTION PUMP	(A)
2	2644951		1	SLEEVE	
3	31718104		1	SEAL	
4	31718105		1	WIRE	
5	3687H012	● 0490685	1	GASKET - FUEL INJ PUMP	
6	0826244		2	STUD	
7	0576002		2	NUT	
8	0920003		2	WASHER	
9	0920053		2	WASHER	
10	2172692		1	SCREW	
11	0920003		1	WASHER	
12	0920053		1	WASHER	
13	35343106		1	FUEL INJECTION PIPE	NO.1 CYL.
14	35343105		1	FUEL INJECTION PIPE	NO.2 CYL.
15	35343107		1	FUEL INJECTION PIPE	NO.3 CYL.
16	35343108		1	FUEL INJECTION PIPE	NO.4 CYL.
17	36516119	● 0180637	4	CLIP	
18	0746054	● 0726264	2	SCREW	
25	2645698	● 2645C017	4	INJECTOR	
26	2645C309	↺	1	HOLDER	(B)
26	2646522		1	HOLDER	(C)
27	2646724	● 2645C616	1	INJECTOR NOZZLE	(B)
27	2646724		1	INJECTOR NOZZLE	(C)
28	36173452		1	FLANGE	(C)
29	0920113		4	WASHER	
33	3558X009	↳ U586463H	1	PIPE - LEAK OFF	
33	35587355	↳ U586462H	1	PIPE - LEAK OFF	
34	0095315		4	BANJO BOLT	
36	0921176		8	WASHER	
47	33225412	↳ U586463H	1	UNION NUT	
48	33811112	↳ U586463H	1	OLIVE	
49	0206102	↳ U586463H	1	UNION	
50	0746259	● 0096233	4	SCREW	
		● 0096232			
51	0746257	● 0096201	4	SCREW	
Service Options					
25	2645698R		4	INJECTOR - EXCHANGE	

Footnotes	
(A)	FOR BREAKDOWN DETAILS SEE FOLLOWING PAGES
(B)	USED ONLY WITH 2645C017
(C)	USED ONLY WITH 2645698

AFHE1245



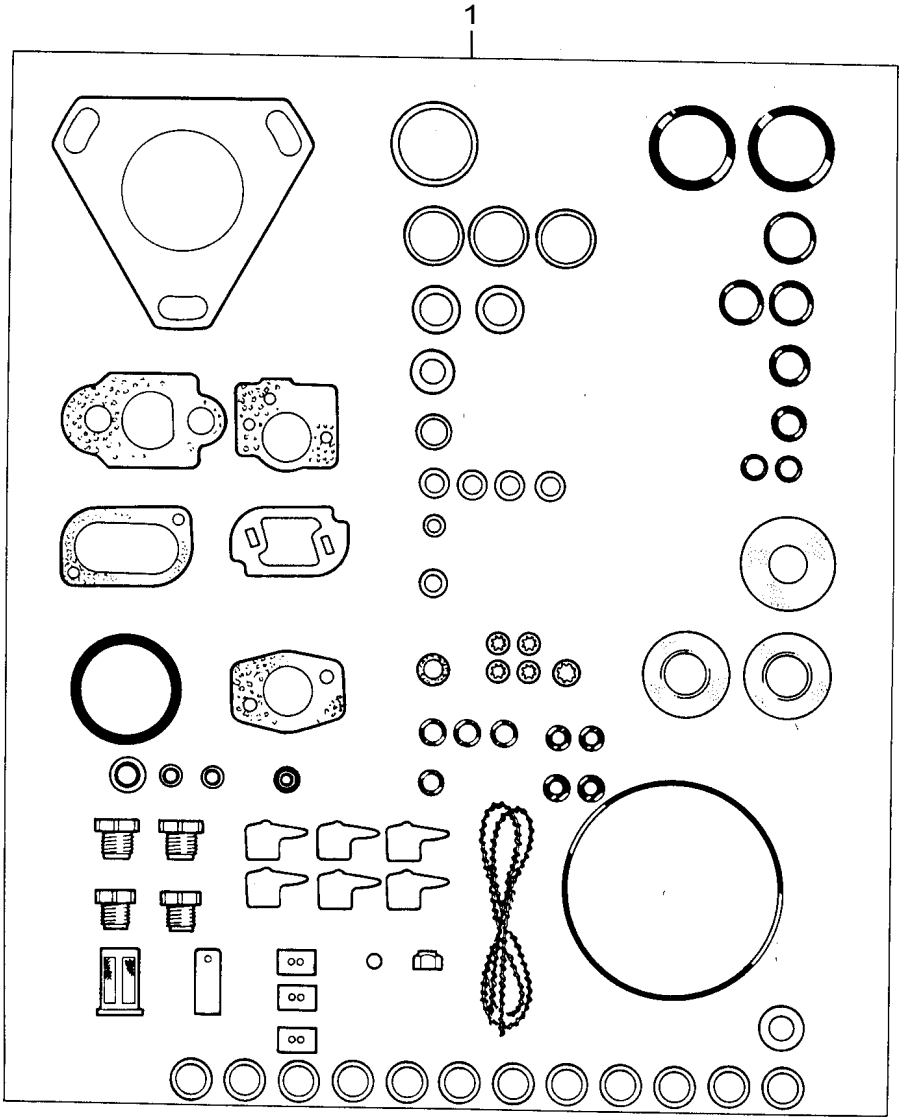
Fuel Injection Equipment (Diesel)		Plate E
		AFHE1245

Item	Part No.	References	Qty.	Description	Notes
1	37895		1	FUEL INJECTION PUMP	
2	—26431336		1	SLEEVE	
3	—26430171		1	BLADE	
4	—26430432		1	LINER - SLIP FIT	
5	—26430308		1	HEAD	
6	—26430702		1	RING	
7	—26430277		1	ROLLER KIT	
8	—26431016		1	PLATE	
9	—26430296		1	VALVE	(A)
9	—26430298		1	VALVE	(A)
10	—		1	PINION	(B)
11	—36537711		1	ARM	
12	—26430367		1	PISTON TIMING DEVICE	

Footnotes	
(A)	CHECK YOUR ENGINE SPECIFICATION BEFORE ORDERING
(B)	NOT SERVICED.

AFHE1245

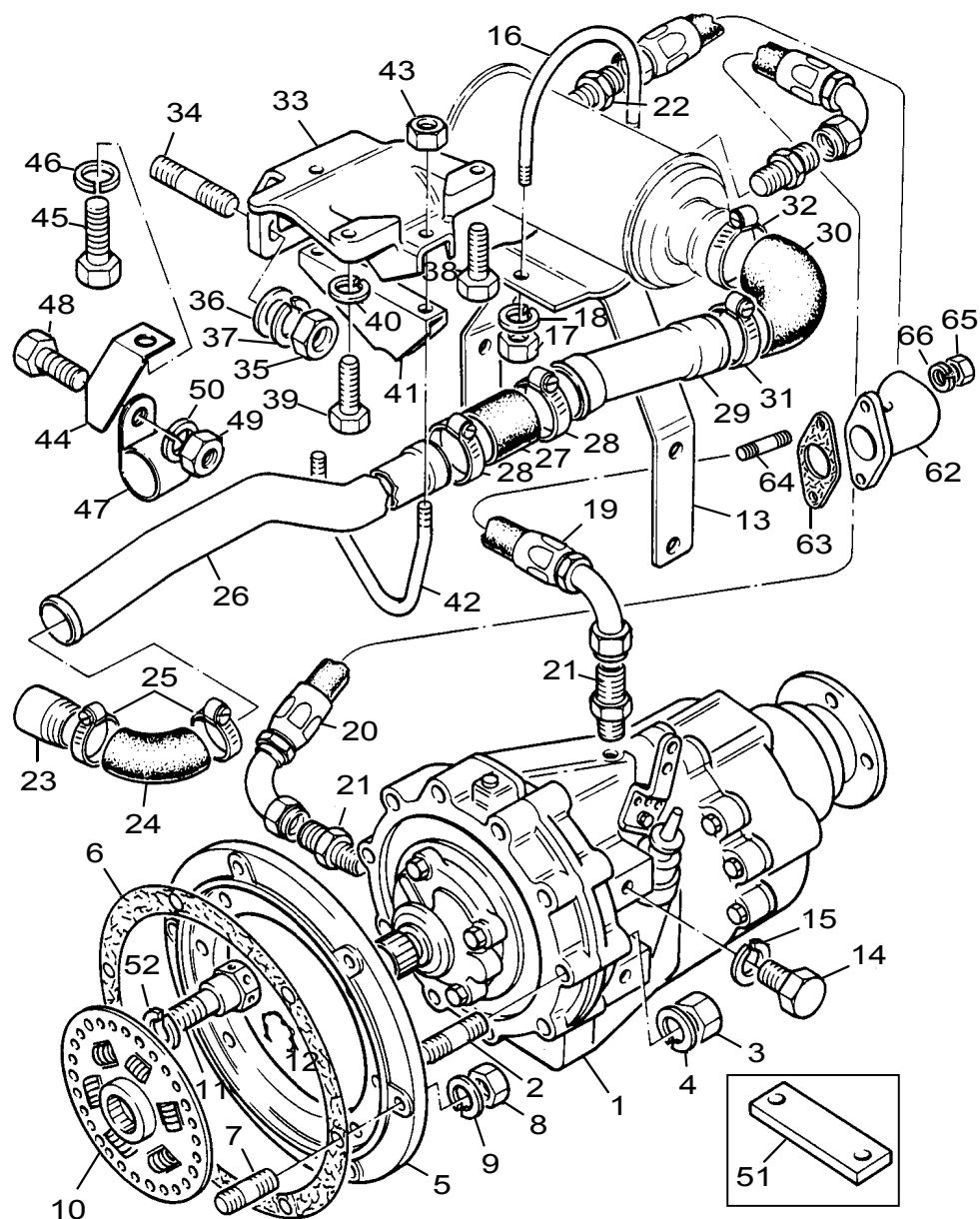
E9172 AFHE-002 -G



Fuel Injection Equipment (Diesel)		Plate G
	AFHE1245	

Item	Part No.	References	Qty.	Description	Notes
1	U5MK0160		X	REPAIR KIT - FUEL INJ PUMP	

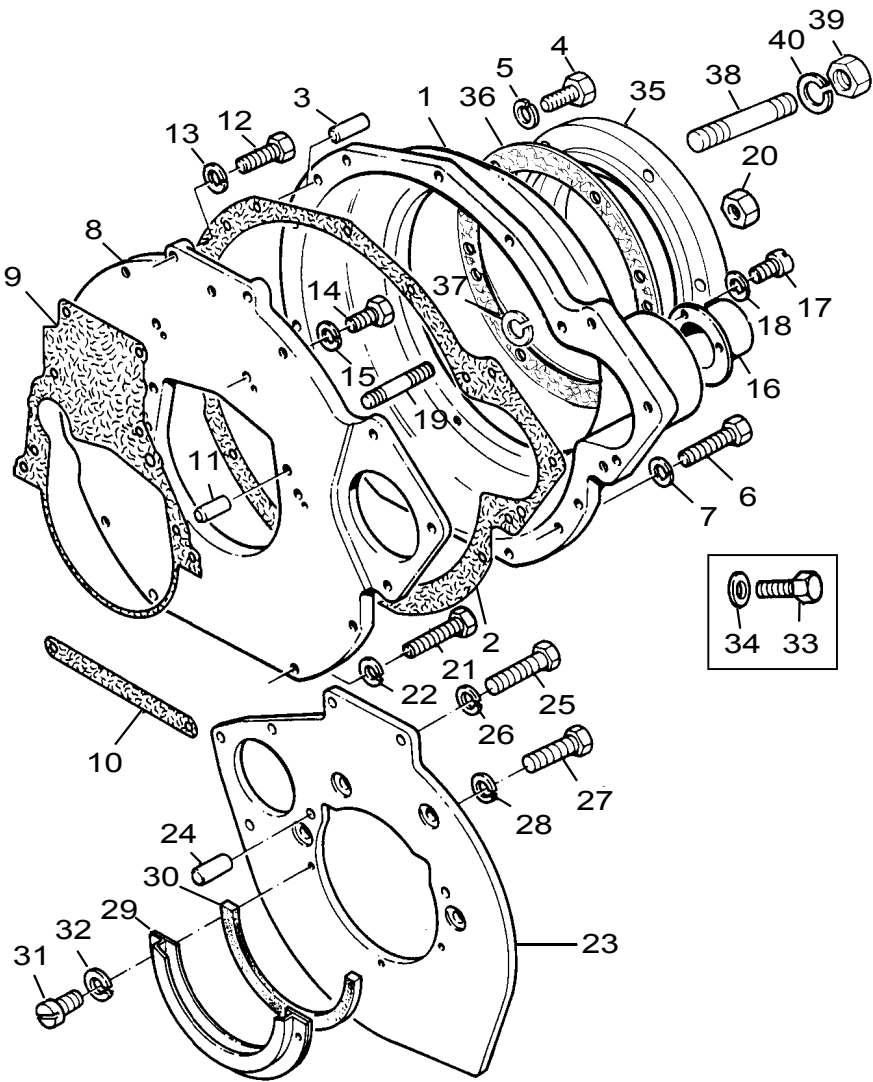
BDHE0388



PTO Clutch & Gearbox		Plate C
		BDHE0388

Item	Part No.	References	Qty.	Description	Notes
5	37147101		1	PLATE	
6	36826108		1	GASKET	
7	0827813		6	STUD	
8	0576051		6	NUT	
9	0920054		6	WASHER	

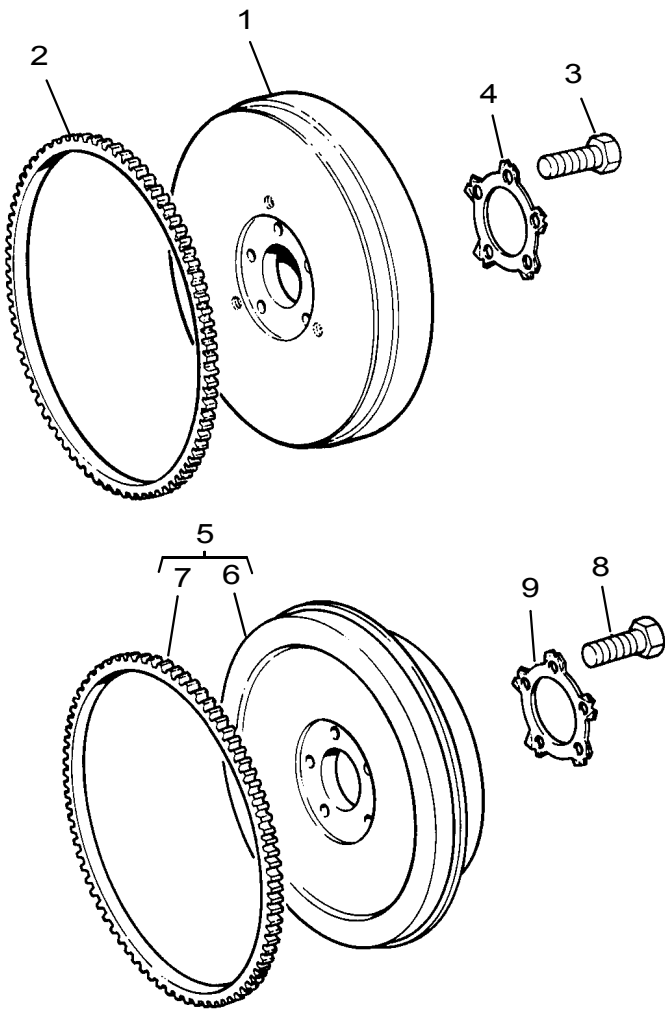
CDHE0341



Flywheel Housing		Plate B
		CDHE0341

Item	Part No.	References	Qty.	Description	Notes
1	37134261		1	FLYWHEEL HOUSING	
2	36826122		1	GASKET - FLYWHEEL HOUSING	
3	0350020		2	DOWEL	
4	0748524		7	SCREW	
5	0920054		7	WASHER	
6	0748527		2	SCREW	
7	0920054		2	WASHER	
8	37147022		1	PLATE	
9	36867115		1	GASKET - FLYWHEEL HOUSING	
10	36857107		1	GASKET - FLYWHEEL HOUSING	
11	0350018		2	DOWEL	
12	0746424		2	SCREW	
13	0920054		2	WASHER	
14	0746454		4	SETSCREW	
15	0920054		4	WASHER	
16	32728102		1	COVER	
17	2224037		3	SCREW	
18	0920051		3	WASHER	

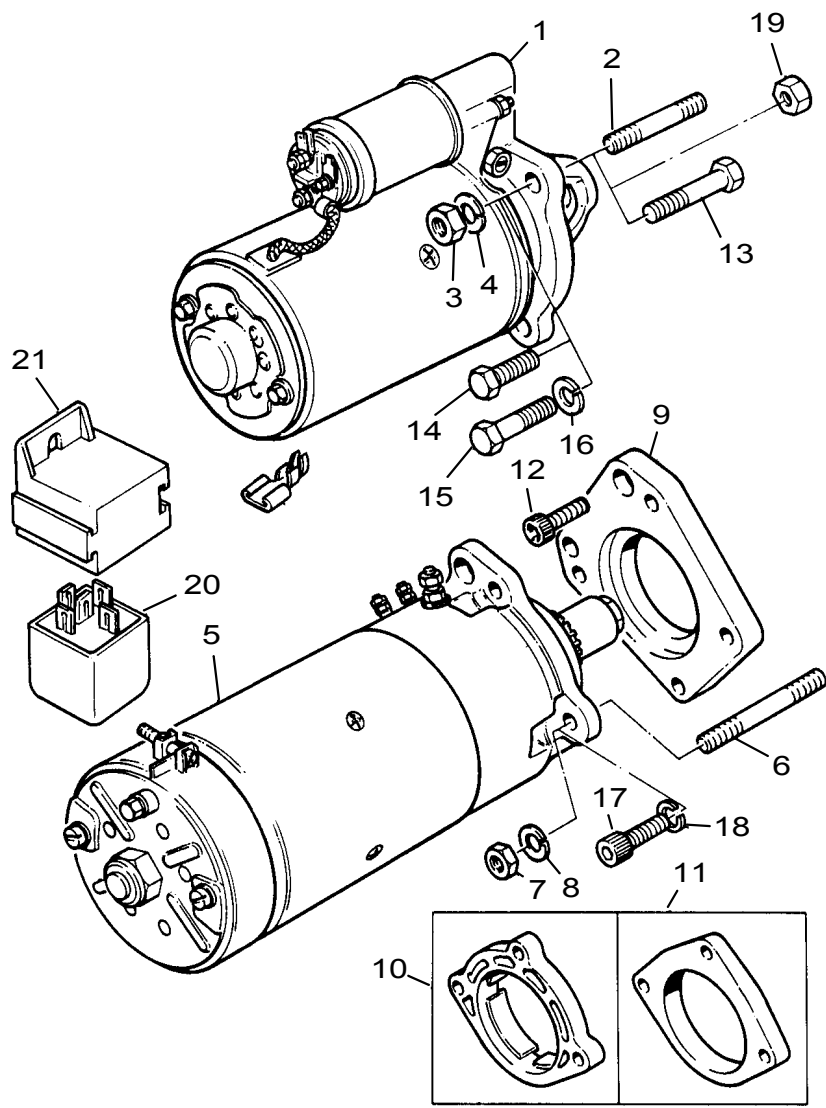
DDHE0378



Flywheel & Starter Ring		Plate A
		DDHE0378

Item	Part No.	References	Qty.	Description	Notes
1	41112793		1	FLYWHEEL	
2	└31161153		1	STARTER RING GEAR	
3	0745180		5	SCREW	
4	31734135		1	WASHER	

EDHE0277

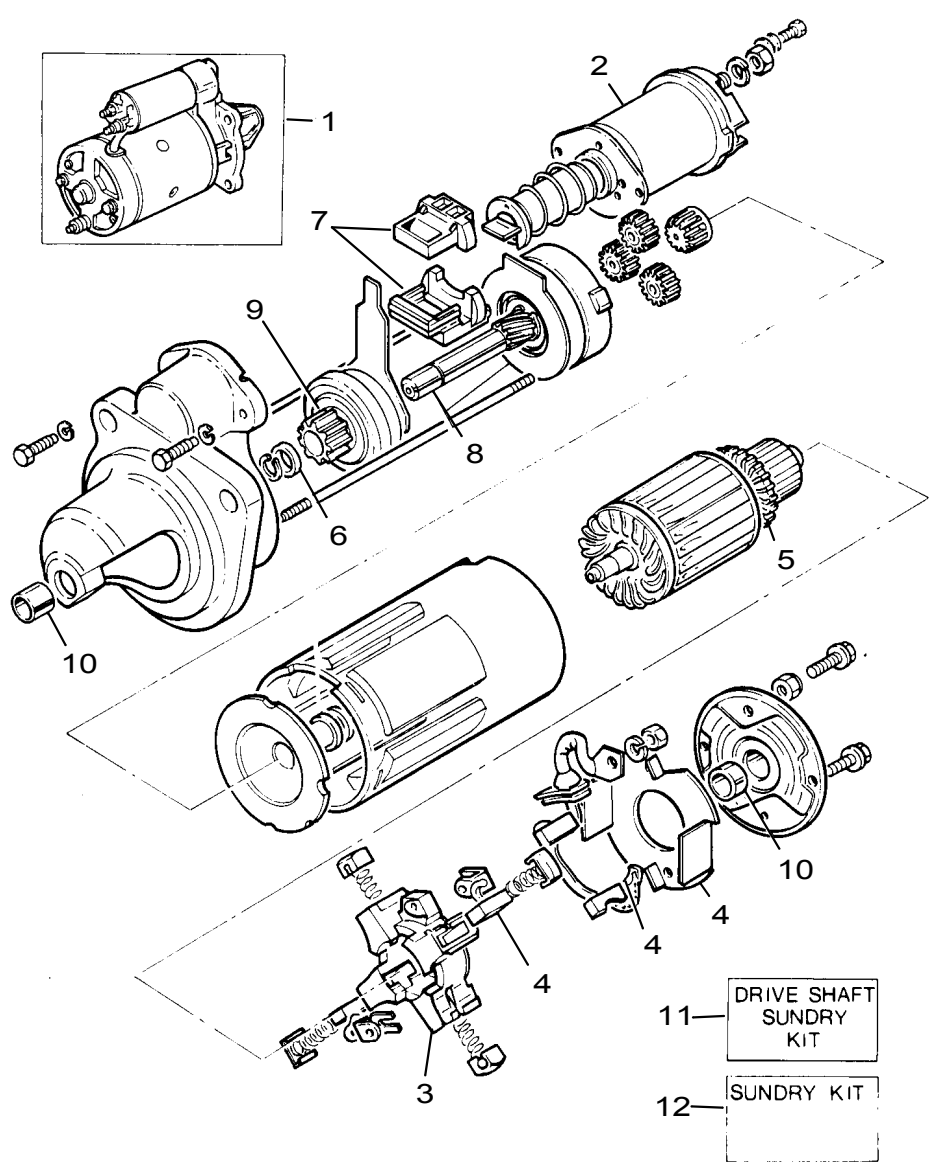


Starter Motor		Plate A
		EDHE0277

Item	Part No.	References	Qty.	Description	Notes
1	2873B059	 2873A001	1	STARTER MOTOR	(A)
3	0576051		3	NUT	
4	0920054		3	WASHER	
11	37513331		1	SPACER	
13	0096439		3	BOLT	
Service Options					
1	2873B059R		1	STARTER MOTOR - EXCHANGE	

Footnotes	
(A)	FOR BREAKDOWN DETAILS SEE FOLLOWING PAGES

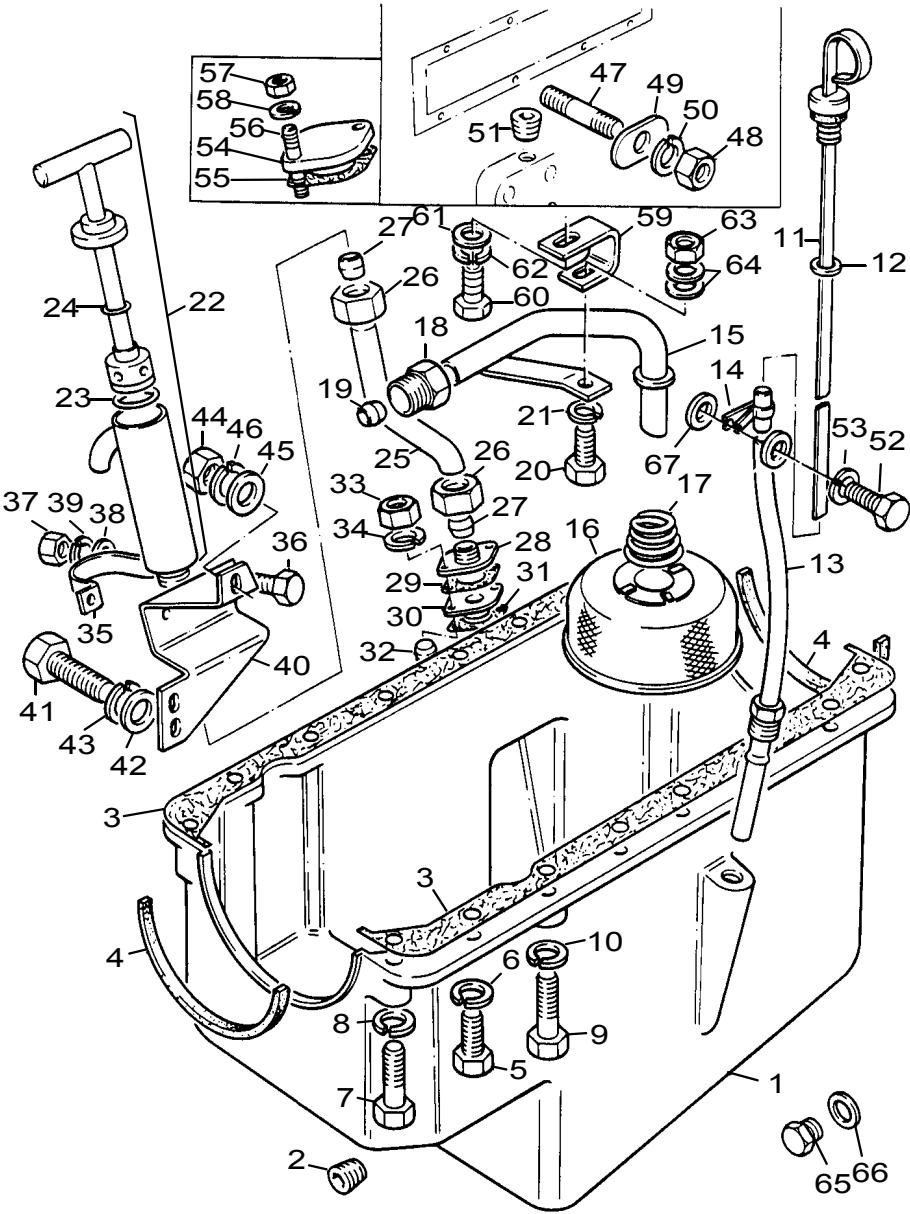
EDHE0277



Starter Motor		Plate E
		EDHE0277

Item	Part No.	References	Qty.	Description	Notes
1	2873B059		1	STARTER MOTOR	
2	└ 28710354		1	SOLENOID	
3	└ 28730471		1	BRUSH KIT	
4	└└		1	BRUSH KIT	
5	└	⇒ REF.1	1	ARMATURE	
6	└ 28730244		1	RETAINER	
7	└ 28730245		1	PIVOT	
8	└ 28730246		1	BRACKET KIT	
9	└ 28730247		1	DRIVE	
10	└ 28730248		1	BUSH	
11	└ 28730249		1	DRIVE KIT	
12	└ 28730400		1	SUNDRY KIT	
Service Options					
1	2873B059R		1	STARTER MOTOR - EXCHANGE	

GBHE0549



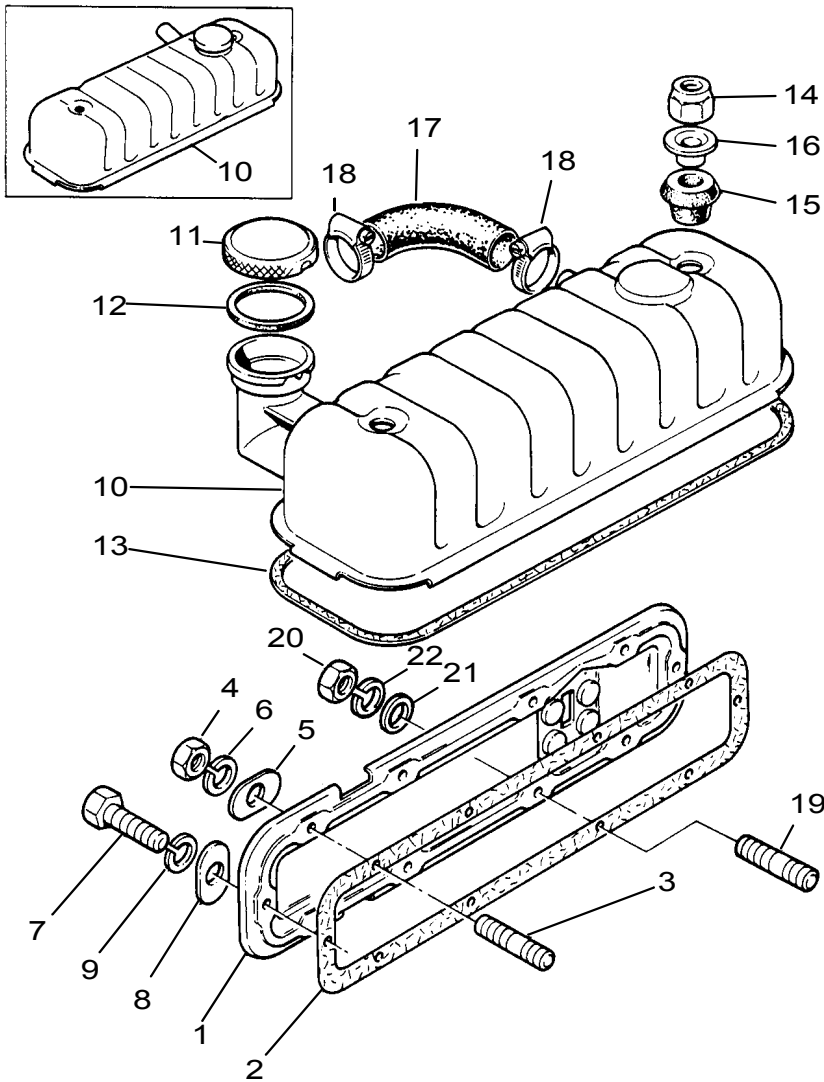
Lubricating Oil Sump		Plate A
		GBHE0549

Item	Part No.	References	Qty.	Description	Notes
1	41811027		1	SUMP	
2	0650593		1	PLUG	
3	0999659		1	GASKET - SUMP	(A)
4	0490775		2	GASKET - SUMP	
5	0746255		11	SETSCREW	
6	0920053		11	WASHER	
7	0096236		4	BOLT	
8	0920053		4	WASHER	
9	0746260	●○ 0096233	1	SCREW	
10	0920053		1	WASHER	
11	31785439		1	DIPSTICK	
12	└ 0920022		1	WASHER	
13	3577F003		1	TUBE	
14	36568143	●○ 0180015	1	PIPE CLIP	
15	35737108		1	OIL PIPE	
16	37725448		1	STRAINER	
17	0746260	●○ 0096233	1	SCREW	
18	33532121		1	UNION NUT	
19	0560244		1	OLIVE	
20	0746254		1	SETSCREW	
21	0920053		1	WASHER	
51	0726403		1	SCREW	
52	0746452		1	SETSCREW	
53	0920054		1	WASHER	
59	3651H002		1	BRACKET	
60	0746253		1	SCREW	
61	0920003		1	WASHER	
62	0920053		1	WASHER	
63	0576002		1	NUT	
64	0920003		2	WASHER	
68	0920004		1	WASHER	

Footnotes

(A)	SERVICED IN PAIRS
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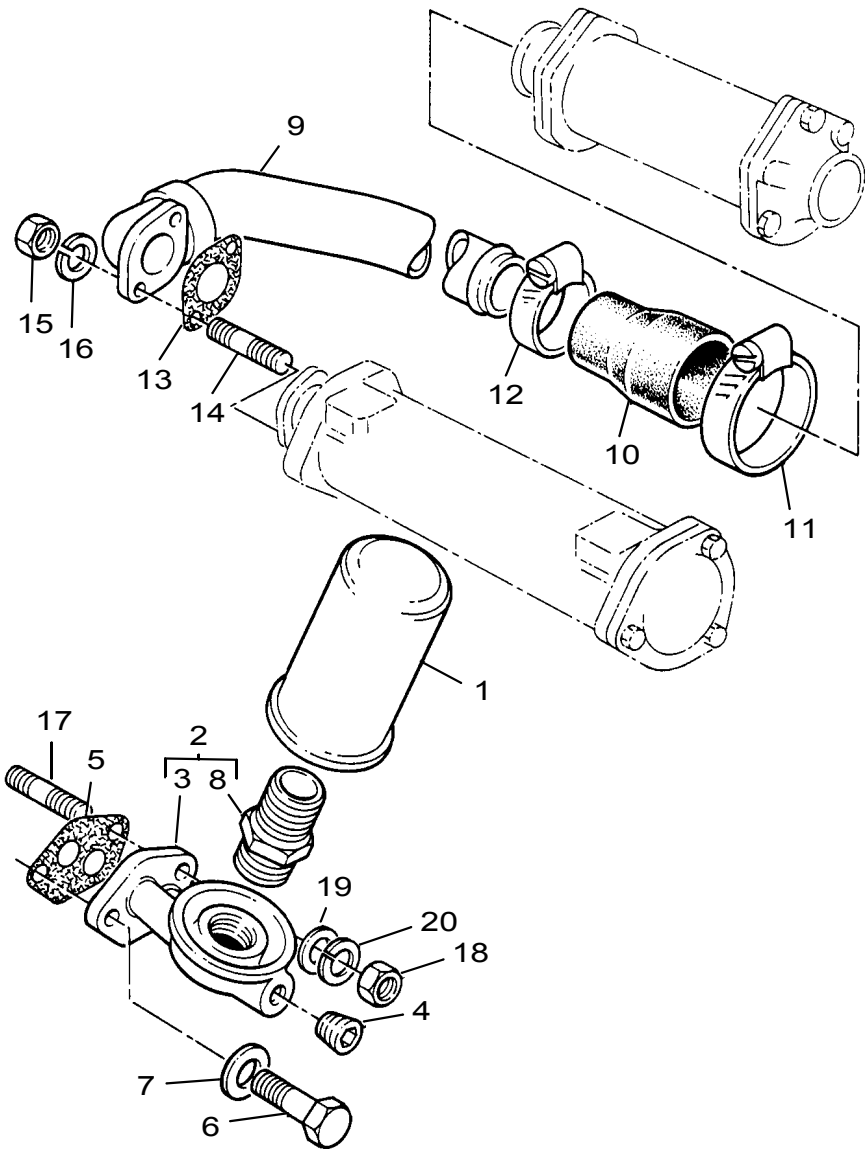
HBHE0956



Lubricating Oil Filler & Breather		Plate B
		HBHE0956

Item	Part No.	References	Qty.	Description	Notes
1	37554591		1	INSPECTION COVER	
2	36846412		1	GASKET	
3	0826249		6	STUD	
4	0576002		6	NUT	
5	36151505		6	WASHER	
6	0920053		6	WASHER	
7	0746254		2	SETSCREW	
8	36151505		2	WASHER	
9	0920053		2	WASHER	
10	37188145		1	CYLINDER HEAD COVER	
11	2487845		1	CAP	
12	└ 24870002		1	GASKET - OIL FILLER CAP	
13	0490724		1	GASKET - CYL. HEAD COVER	
14	0576102		2	NUT	
15	0730116		2	SEAL	
16	0921116		2	WASHER	
17	34821415		1	CONNECTION	
18	2481883		2	CLIP	
19	0826290		1	STUD	
20	0576002		1	NUT	
21	36151505		1	WASHER	
22	0920053		1	WASHER	

JBHE0445

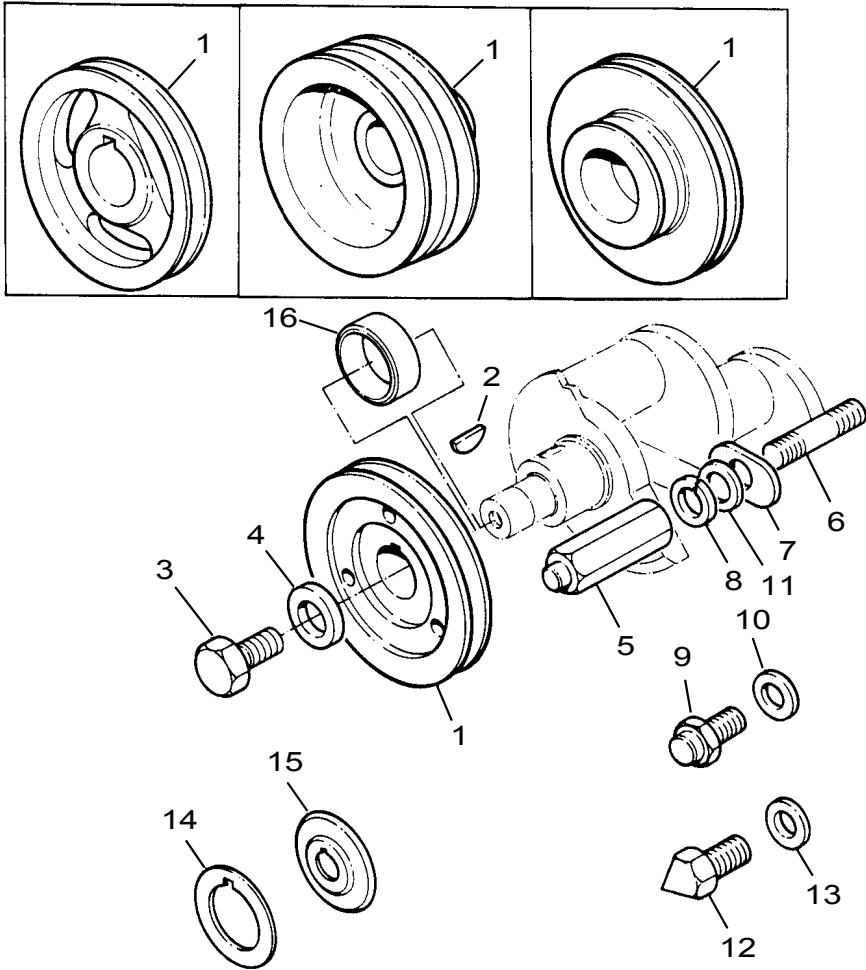


Lubricating Oil Filter & Integral Oil Cooler		Plate C
		JBHE0445

Item	Part No.	References	Qty.	Description	Notes
1	2654403		1	OIL FILTER	
2	41321035	●○ 37764061	1	OIL FILTER HEAD	
3	└	⇒ REF.2	1	HEAD	
8	└ 33514114		1	ADAPTOR	(A)
4	2431131		1	PLUG	
5	36862517		1	GASKET - OIL FILTER HEAD	
8	33555131		X	ADAPTOR	(B)
17	0826626		2	STUD	
18	0576054		2	NUT	
20	0920055		2	WASHER	

Footnotes	
(A)	USED WITH 41321035 ONLY
(B)	USED WITH 37764061 ONLY

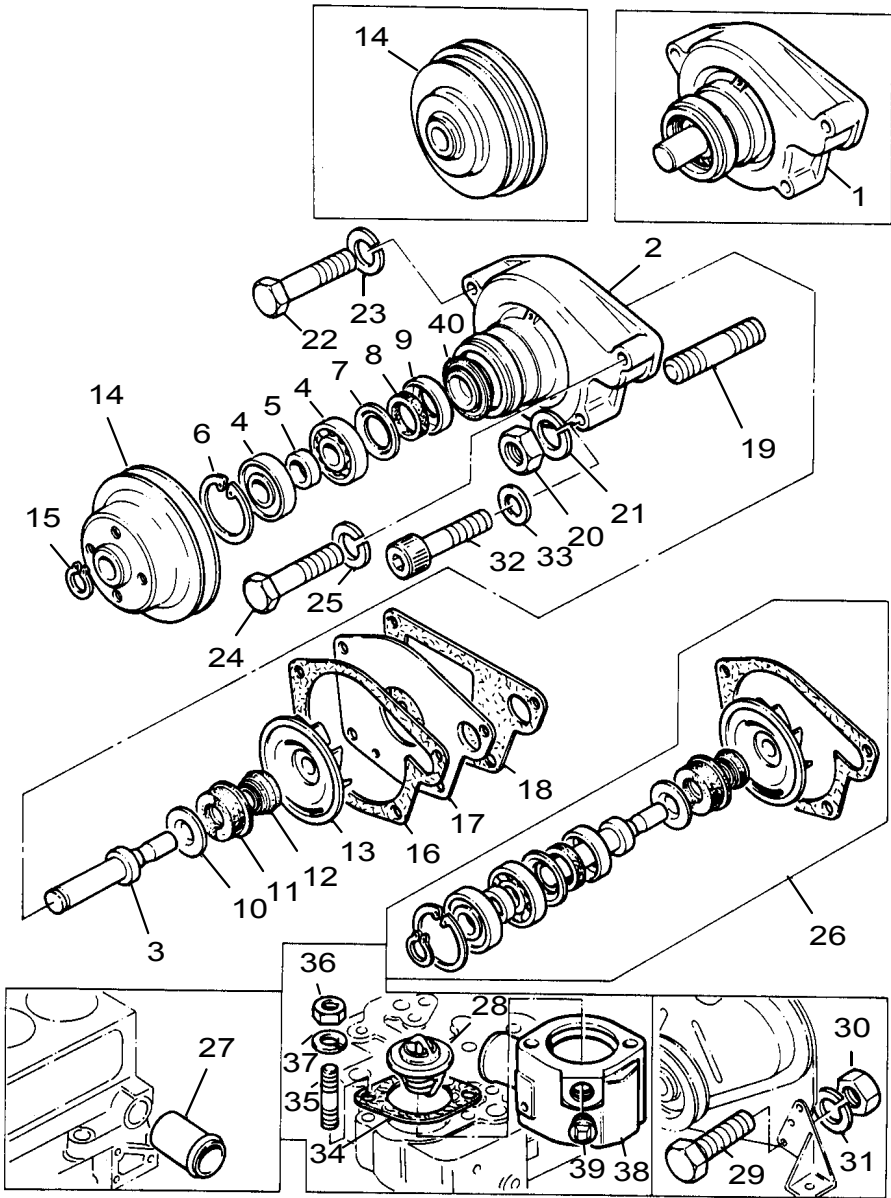
KBHE0296



Front End Drive Input		Plate A
		KBHE0296

Item	Part No.	References	Qty.	Description	Notes
1	31147637		1	CRANKSHAFT PULLEY	
2	0500006		1	WOODRUFF KEY	
3	32162316		1	SCREW	
4	33124119		1	WASHER	
5	32726511		1	PIN	
6	0826248		1	STUD	
7	36151505		1	WASHER	
8	0920053		1	WASHER	
15	33474003		1	FLANGE	

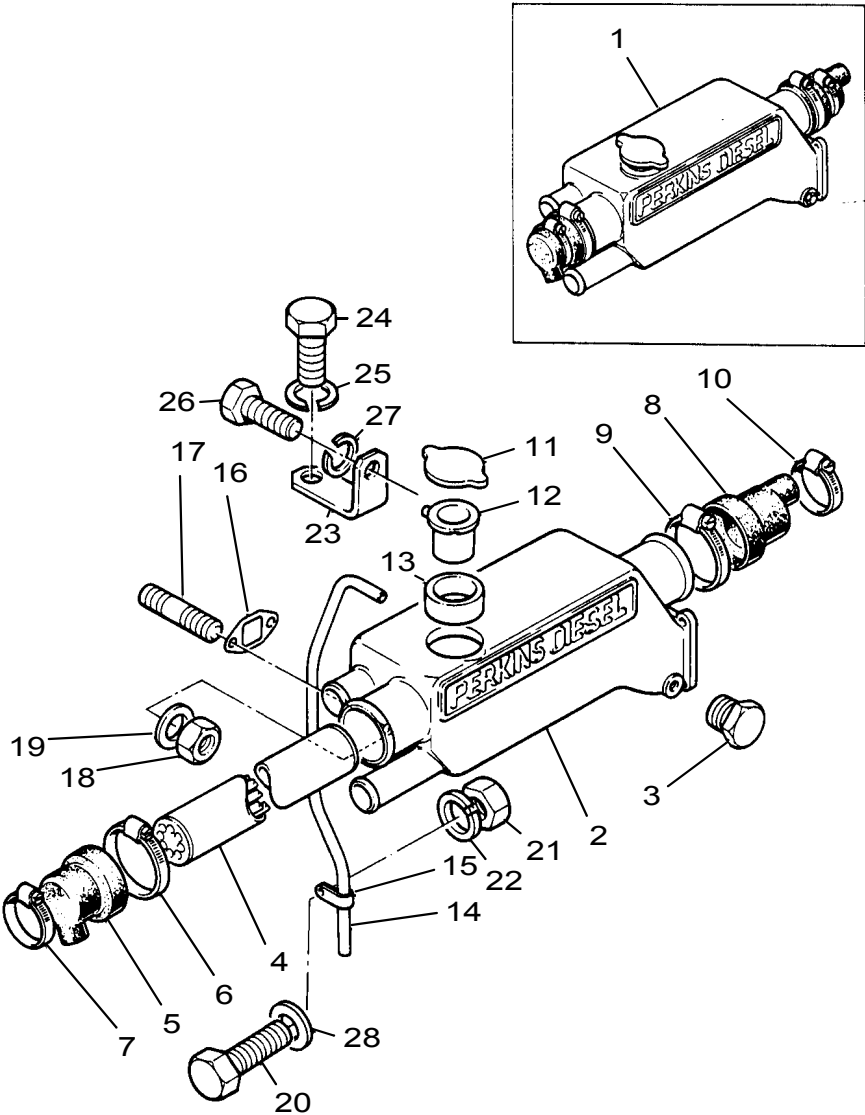
LBHE1033



Water Pump, Thermostat & Heat Exchanger		Plate A
		LBHE1033

Item	Part No.	References	Qty.	Description	Notes
1	U5MW0054		1	WATER PUMP	
2	└─	⇒ REF.1	1	BODY	
3	└─	⇒ REF.26	1	SHAFT	
4	└─	⇒ REF.26	2	BEARING	
5	└─	⇒ REF.26	1	DISTANCE PIECE	
6	└─ 0170046		1	CIRCLIP	(A)
12	└─ 2417204		1	SEAL	(A)
13	└─	⇒ REF.26	1	IMPELLER	
40	└─ 2415217		1	SEAL	(A)
14	31145821		1	WATER PUMP PULLEY	
16	36866421		1	GASKET	(A)
17	36243515		1	PLATE	
18	36866713		1	GASKET	
19	0826209		1	STUD	
20	0576002		1	NUT	
21	0920053		1	WASHER	
22	0096236		2	BOLT	
23	0920053		2	WASHER	
24	0096234		1	BOLT	
25	0920053		1	WASHER	
26	U7LW0003		X	REPAIR KIT - WATER PUMP	
27	0201297		1	CONNECTION	
28	2485608		1	THERMOSTAT	
Service Options					
1	U5MW0054R		1	WATER PUMP - EXCHANGE	
Footnotes					
(A)	ALSO INCLUDED IN REPAIR KIT				

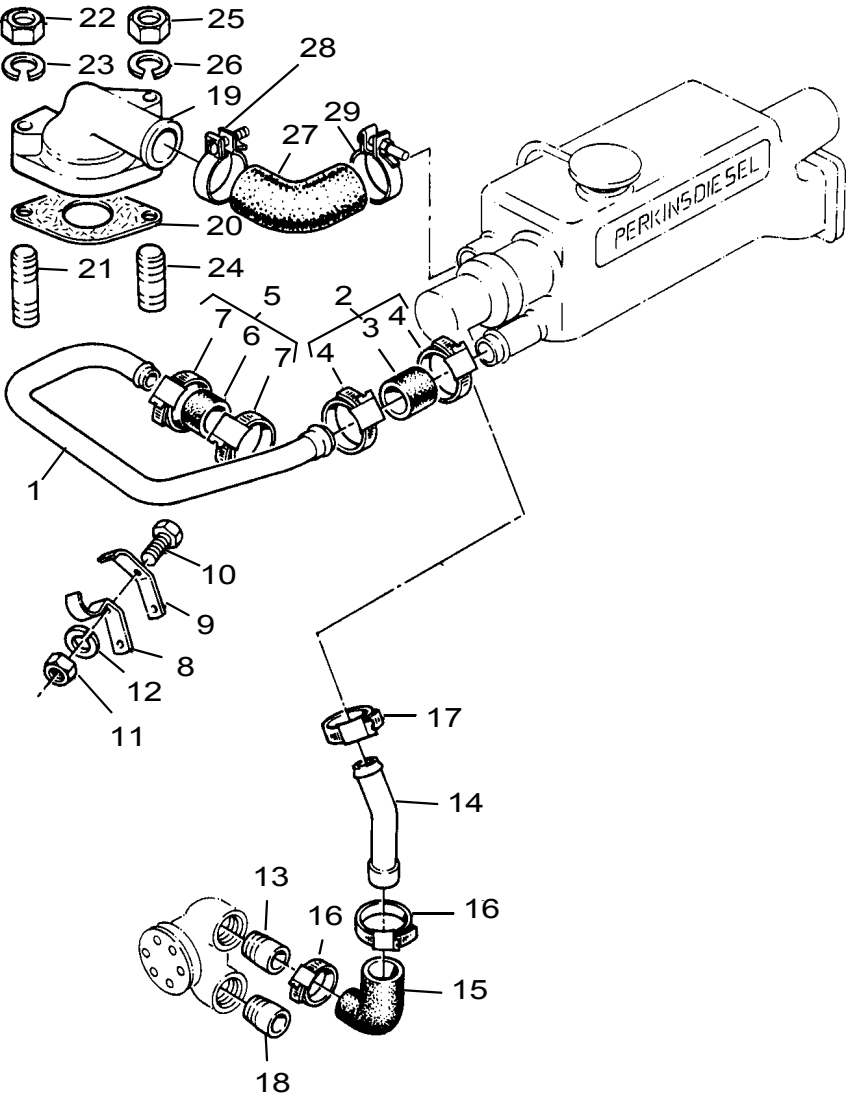
LBHE1033



LBHE1033

Item	Part No.	References	Qty.	Description	Notes
1	2486H005		1	EXCHANGER	
2	└─24860169		1	BODY	
12	└─┬─2486H902		1	FILLER	
13	└─┬─2486H901	●○ 24860173	1	INSERT	
3	└─24860161		1	PLUG	
4	└─2486H904		1	TUBE	
5	└─24860167		1	COVER	
6	└─2481890		1	HOSE CLIP	
7	└─2481889		1	CLIP	
8	└─24865264	●○ 24860166	1	COVER	
9	└─2481890		1	HOSE CLIP	
10	└─2481889		1	CLIP	
11	└─2486H905		1	CAP	
14	33871665		1	WATER PIPE	
15	36568143	●○ 0180182	1	PIPE CLIP	
16	0490656		2	GASKET - EXHAUST MANIFOLD	
17	0826274		4	STUD	
18	0576002	●○ 2188212	4	NUT	
19	3623A001		4	WASHER	
23	3641K002		2	BRACKET	
24	0746651	●○ 2182118	2	SCREW	
25	0920055		2	WASHER	
26	0746454		2	SETSCREW	
27	0920054		2	WASHER	

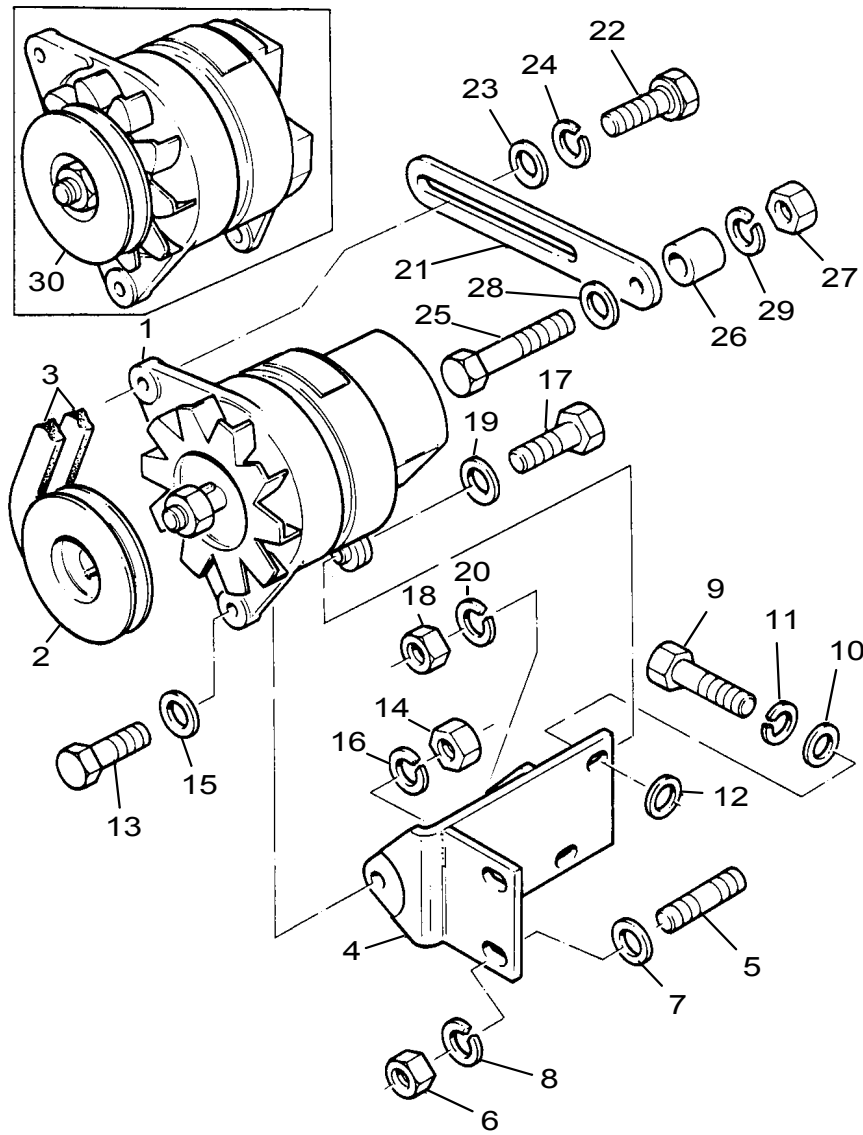
LBHE1033



LBHE1033

Item	Part No.	References	Qty.	Description	Notes
1	3514M001		1	WATER PIPE	
2	U5MH0049	●○ 33853111	1	HOSE KIT	
3	└	⇒ REF 2	1	HOSE	
4	└ 2481877	●○ 2481887	2	HOSE CLIP	
		●○ 21825195			
5	U5MH0009	●○ 33852108	1	HOSE KIT	
6	└	⇒ REF.5	1	HOSE	
7	└ 21825197	●○ 0180066	2	CLIP	
8	36675136		1	CLIP	
9	36518339		1	CLIP	
10	0726201		1	SCREW	
11	0576001		1	NUT	
12	0920052		1	WASHER	
13	33286109		1	CONNECTION	
14	3427J301		1	WATER PIPE	
15	34821112		1	CONNECTION	
16	2481886		2	CLIP	
17	2481884		1	CLIP	
18	33286109		1	CONNECTION	
19	37735421		1	BODY	
20	0490184		1	GASKET - WATER CONNECTION	
21	0826477		1	STUD	
22	0576051		1	NUT	
23	0920054		1	WASHER	
24	0826479		1	STUD	
25	0576051		1	NUT	
26	0920054		1	WASHER	
27	0201193		1	HOSE	
28	2481886		1	CLIP	
29	21825198	●○ 0180067	1	CLIP	
		●○ 2481887			

NDHE1053

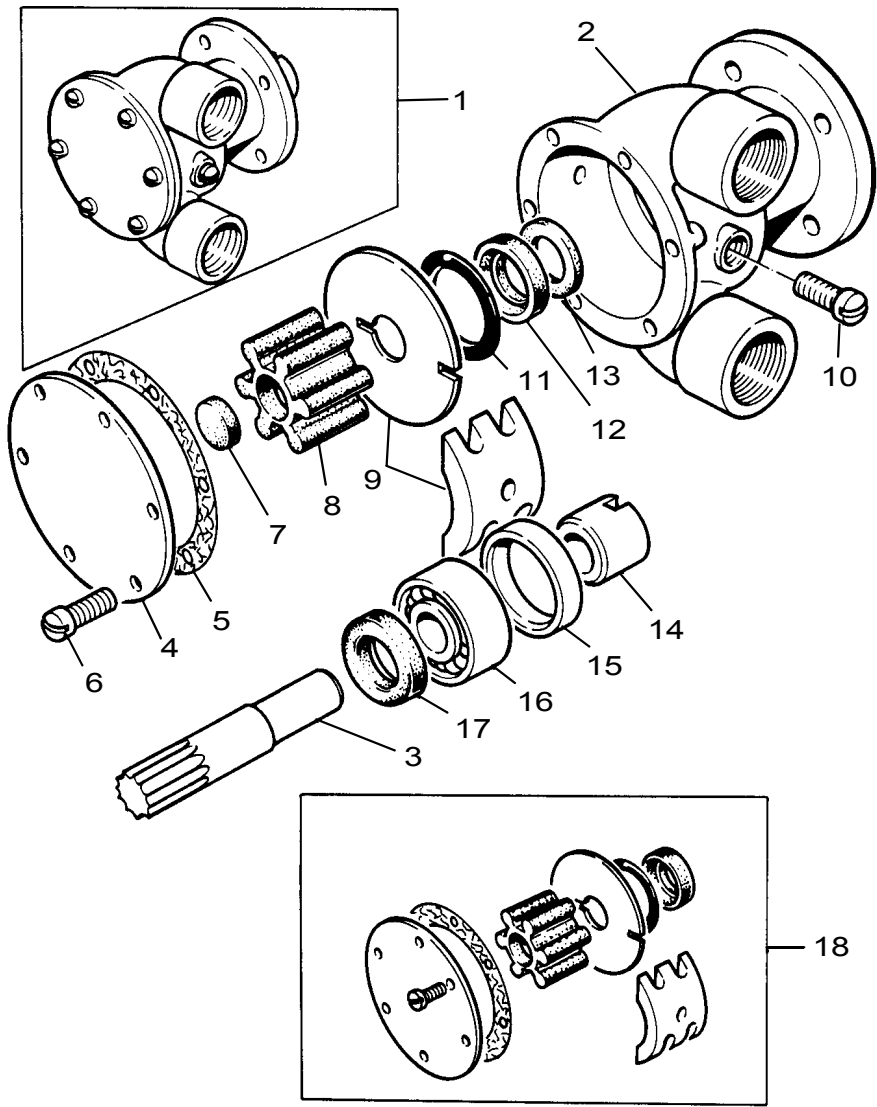


Alternator & Generator		Plate G
		NDHE1053

Item	Part No.	References	Qty.	Description	Notes
1	2871A115	→ U583130H	1	ALTERNATOR	(A)
2	31141671	→ U583130H	1	ALTERNATOR PULLEY	
3	2614B636	→ U583131H	1	BELT	(B)
		● 2614B136			
		● 2614B036			
3	2614B133	● 2614B033	1	BELT	(B)
		→ U583130H			
4	3827C005	→ U588246H	1	BRACKET	
4	3827C006	→ U588247H	1	BRACKET	
5	0826408		2	STUD	
6	0576051		2	NUT	
7	0920004		2	WASHER	
8	0920054		2	WASHER	
9	0096235		2	BOLT	
10	0920497		2	WASHER	
11	0920053		2	WASHER	
12	0920497		2	WASHER	
13	0746257	● 0096201	1	SCREW	
14	0576002		1	NUT	
15	0920497		1	WASHER	
16	0920053		1	WASHER	
17	0096234		1	BOLT	
18	0576002		1	NUT	
19	0920497		1	WASHER	
20	0920053		1	WASHER	
21	36155111	→ U583130H	1	LEVER	
21	36155152	→ U583131H	1	LEVER	
		● 36155109			
22	2314H004	● 2314C045	1	SCREW	
23	0920497		1	WASHER	
24	0920053		1	WASHER	(C)
25	0746259	● 0096232	1	SCREW	
26	33135413	→ U583130H	1	SPACER	
26	33135418	→ U583131H	1	SPACER	
27	0576002		1	NUT	
28	0920003		1	WASHER	
29	0920053		1	WASHER	
30	2871A601	→ U583131H	1	ALTERNATOR	(D,E)
		→ U588246H			
30	2871A602	→ U588247H	1	ALTERNATOR	(D)

Footnotes	
(A)	COMPONENT PARTS SUPPLIED BY J.LUCAS LTD
(B)	SERVICED IN PAIRS
(C)	USED ONLY WITH 36155109/36155111
(D)	COMPONENT PARTS SUPPLIED BY MOTOROLA
(E)	USE 2871A602 WITH 3827C006

QBHE0115



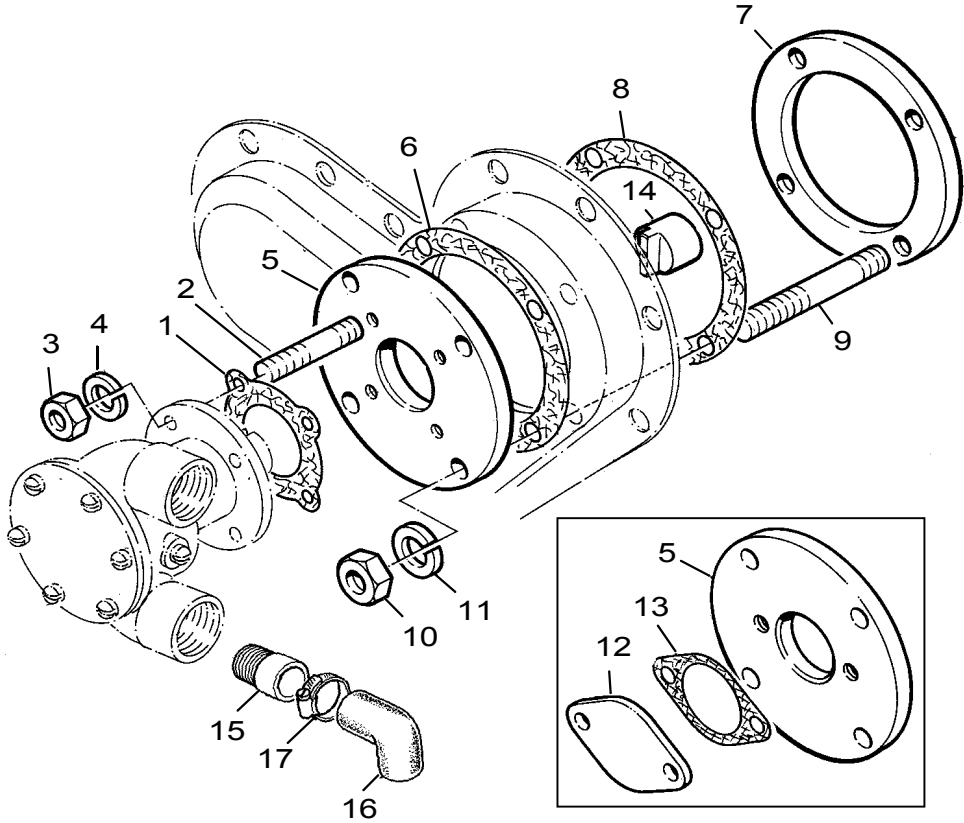
QBHE0115

Item	Part No.	References	Qty.	Description	Notes
1	35615		1	WATER PUMP	
2	—	⇒ REF.1	1	BODY	
3	—0750417		1	SHAFT	
4	—24880189	● 24887206	1	COVER	(A)
5	—0490785		1	GASKET - WATER PUMP	(A)
6	—0720866		6	SCREW	(A)
7	—0730110		1	PLUG	
8	—0460038		1	IMPELLER	(A)
9	—24880103		1	CAM	(A)
10	—0720688		1	SCREW	
11	—0640069		1	SEAL - O RING	(A)
12	—0730086		1	SEAL - WATER PUMP	(A)
13	—0995454		1	SLINGER	
14	—0980655		1	COUPLING	
15	—0470753		1	RING	
16	—0040605		1	BALL BEARING	
17	—0730086	● 0730161	1	SEAL - WATER PUMP	
18	—24880114		X	PUMP KIT	
8	24880452		1	IMPELLER	(B,C)

Footnotes

(A)	ALSO INCLUDED IN REPAIR KIT
(B)	USED ONLY FOR LIFEBOAT APPLICATIONS
(C)	NOT INCLUDED IN REPAIR KIT

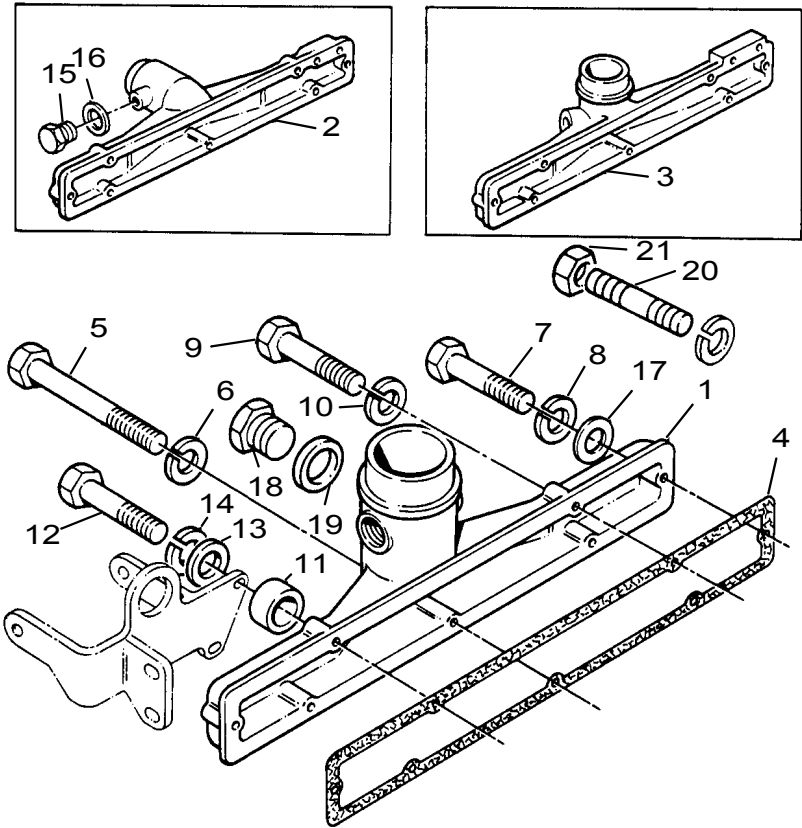
QBHE0115



Gear Driven Sea Water Pump		Plate B
		QBHE0115

Item	Part No.	References	Qty.	Description	Notes
1	36821503		1	GASKET	
2	0826008		4	STUD	
3	0576001		4	NUT	
4	0920052		4	WASHER	
5	33154119		1	ADAPTOR	
6	33825411		1	GASKET	
7	33154118		1	PLATE	
8	33825411		1	GASKET	
9	0826268		4	STUD	
10	0576002		4	NUT	
11	0920053		4	WASHER	
14	32461313		1	SHAFT	

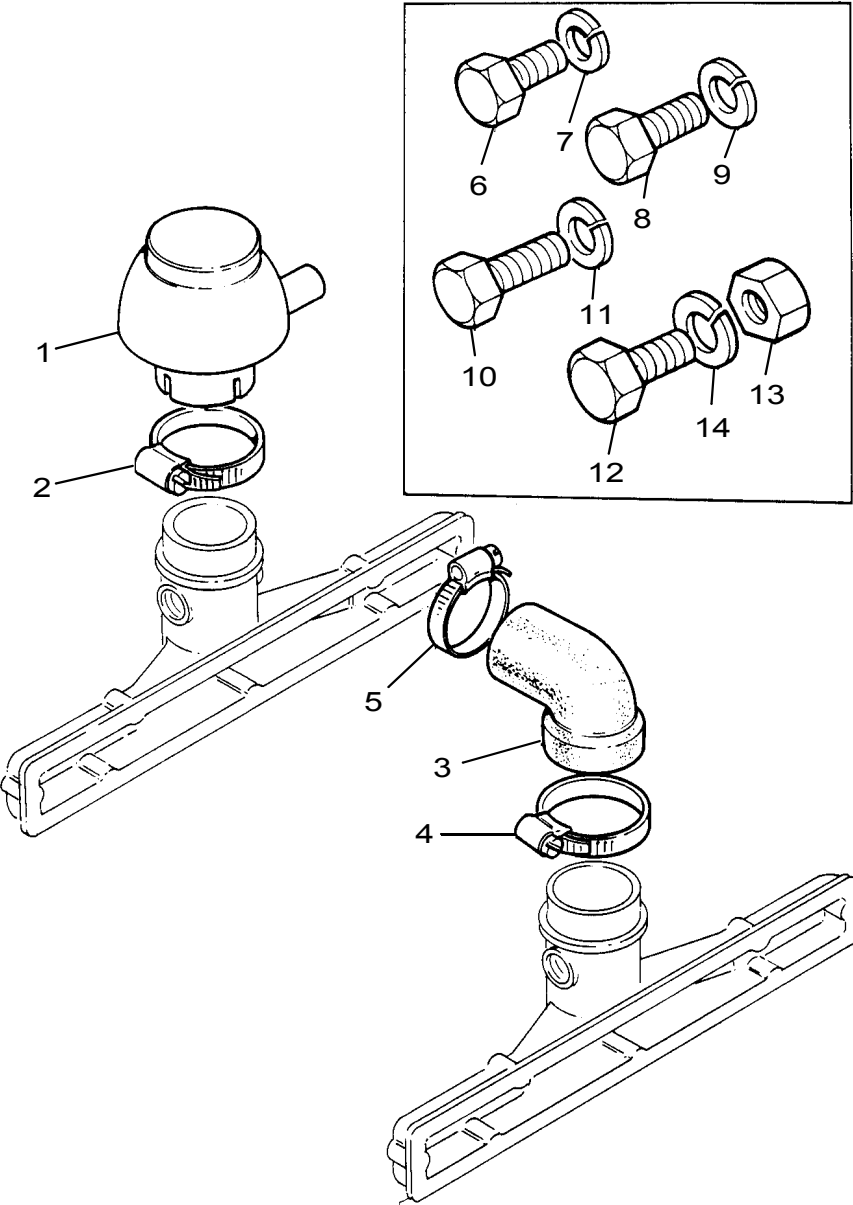
TBHE0400



Induction Manifold		Plate A
		TBHE0400

Item	Part No.	References	Qty.	Description	Notes
3	37786185		1	INDUCTION MANIFOLD	
4	36846415		1	GASKET - IND MANIFOLD	
5	0096240		1	BOLT	
6	0920053		1	WASHER	
7	0746258	●○ 0096231	2	SCREW	
8	0920053		2	WASHER	
9	0746260	●○ 0096233	2	SCREW	
10	0920053		2	WASHER	
17	0920484		2	WASHER	

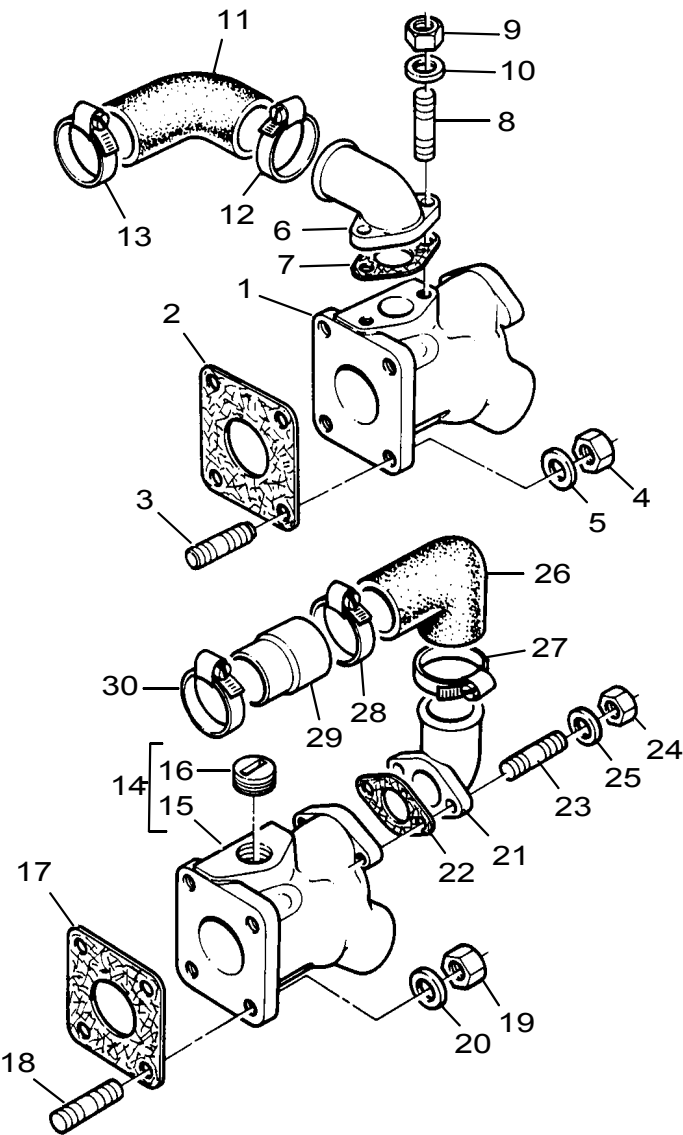
TDHE0083



Air Cleaner & Restriction Indicator		Plate B
		TDHE0083

Item	Part No.	References	Qty.	Description	Notes
1	37444108	↳ U613802M ●○ 0240568	1	COVER	
2	21825200	●○ 2481897	1	CLIP	

UDHE0296

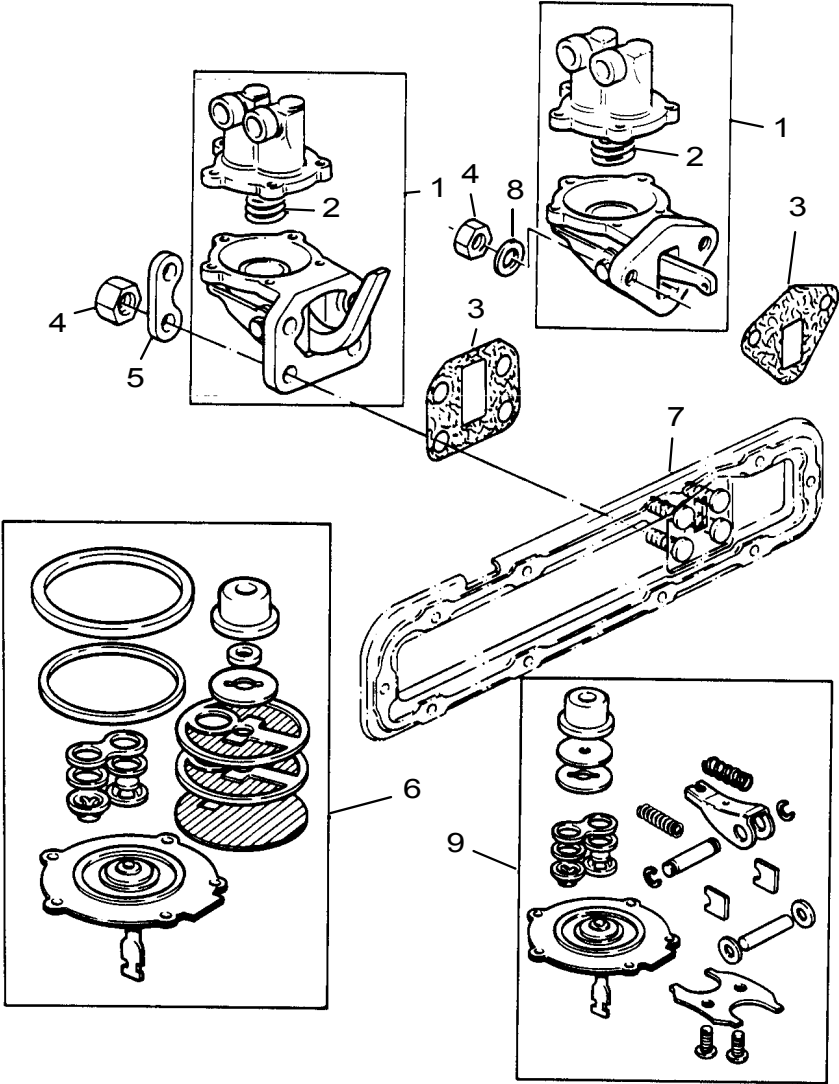


Exhaust Outlet Flange		Plate C
		UDHE0296

Item	Part No.	References	Qty.	Description	Notes
14	41316509		1	ELBOW	
15		⇒ REF.14	1	ELBOW	
16	 32114139		1	PLUG	
17	36841135		1	GASKET	
18	0826412		4	STUD	
19	0576051		4	NUT	
20	0920004		4	WASHER	
21	37733271		1	CONNECTION	
22	36833147		1	GASKET	
23	0826201		2	STUD	
25	0920003		2	WASHER	
26	0201193		1	HOSE	
27	21825198	●○ 0180067 ●○ 2481887	1	CLIP	
28	21825198	●○ 0180067 ●○ 2481887	1	CLIP	
29	33435154	●○ 33427131	1	AIR PIPE	
30	21825198	●○ 0180067 ●○ 2481887	1	CLIP	

● VBHE0983

VBHE1374



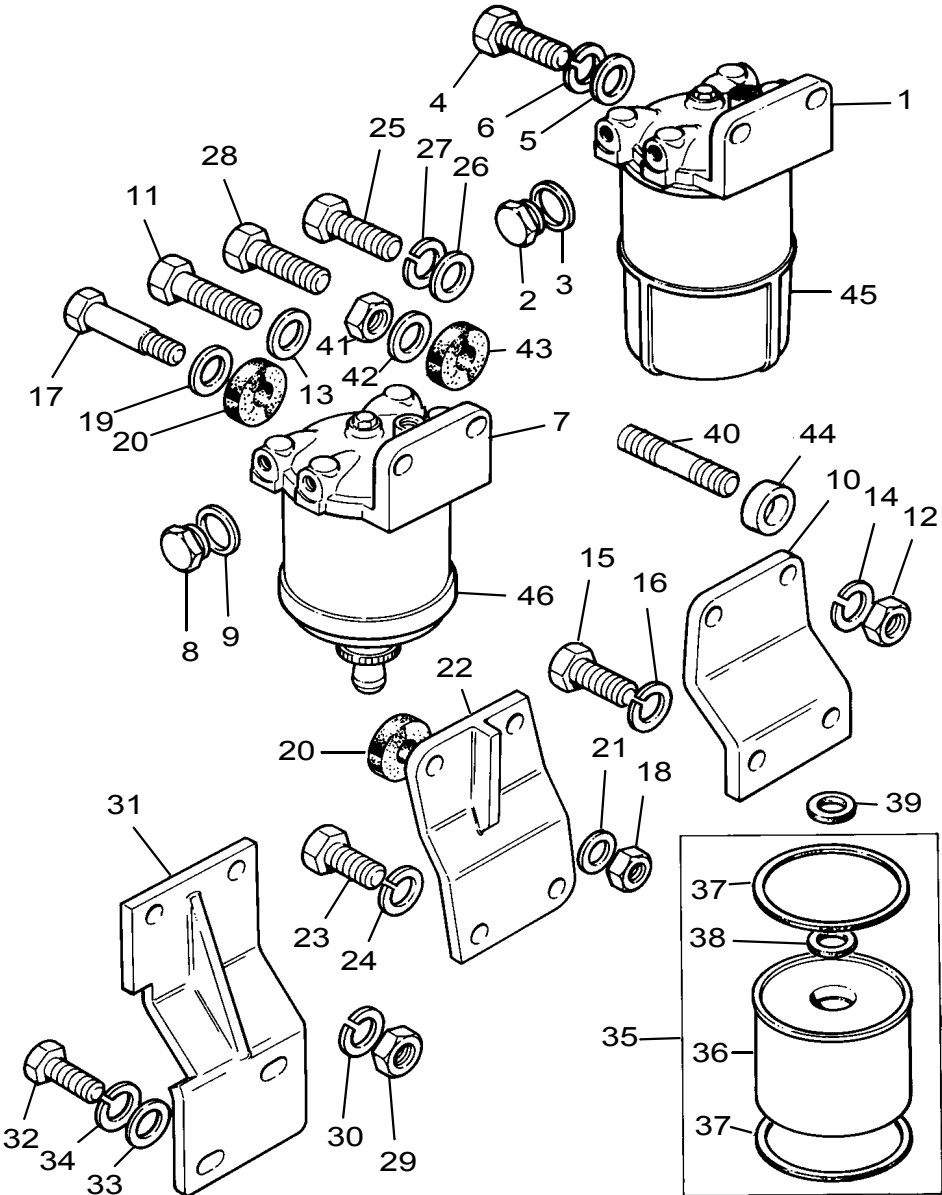
Low Pressure Fuel System		Plate A
● VBHE0983		VBHE1374

Item	Part No.	References	Qty.	Description	Notes
1	2641A058	● 2641702	1	LIFT PUMP	
2	└	⇒ REF.10	1	SPRING	
3	3685R008	● 36851113	1	GASKET - LIFT PUMP	
4	33221115		4	NUT	
5	36241316		2	PLATE	
6	26410087	● 26410096	1	REPAIR KIT - LIFT PUMP	(A)
7		◁ HBHE	1	COVER	
10	26412003		X	REPAIR KIT - LIFT PUMP	(B)

Footnotes	
(A)	USED ONLY WITH 2641702
(B)	USED ONLY WITH 2641A058

●∞ VBHE0983

VBHE1374

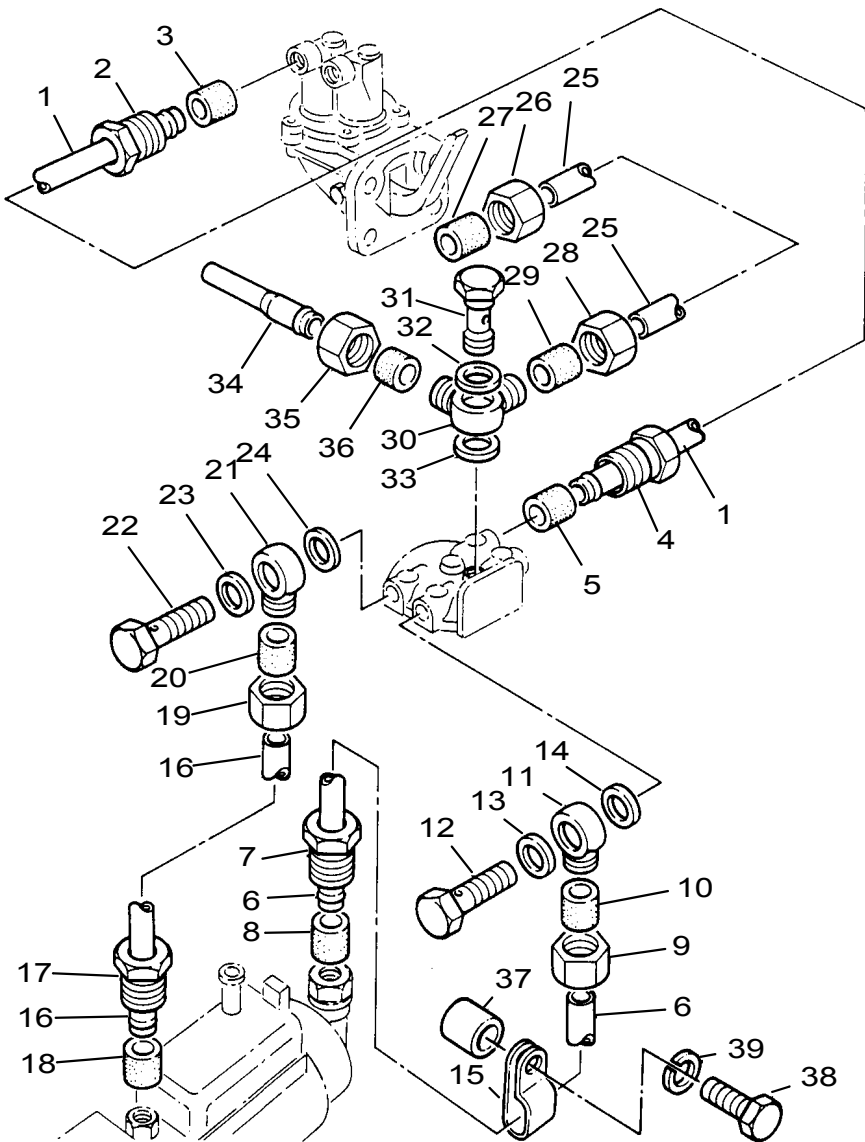


Low Pressure Fuel System		Plate B
● VBHE0983		VBHE1374

Item	Part No.	References	Qty.	Description	Notes
1	2656613		1	FUEL FILTER ASSEMBLY	
4	0746454		2	SETSCREW	
5	0920004		2	WASHER	
6	0920054		2	WASHER	
35	26560017	↗ 26561117	X	FUEL FILTER KIT	
35	26561117	↗ 26560017	X	FUEL FILTER KIT	
36	└	⇒ REF.35	1	ELEMENT	
37	└└0490786		2	SEAL	
38	└└26560014		1	SEAL - O RING	
39	26560016		1	WASHER	

● VBHE0983

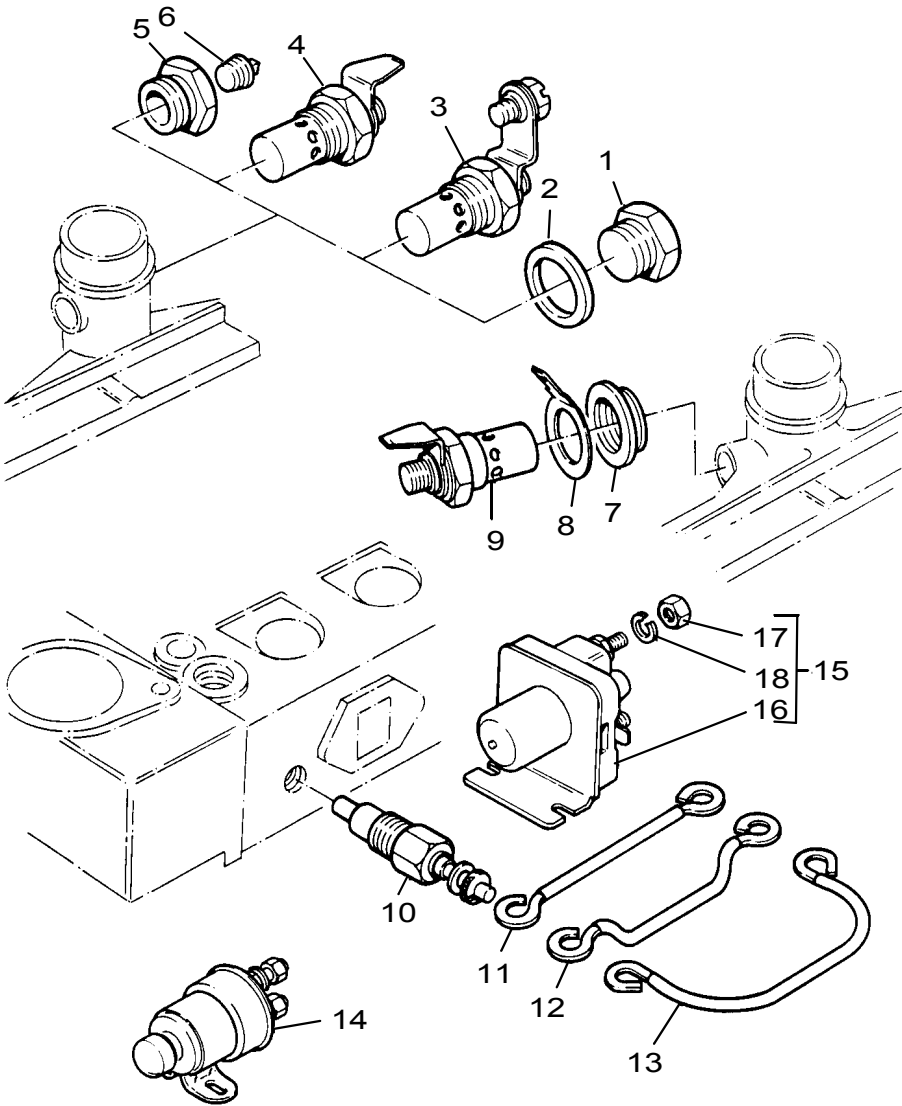
VBHE1374



Low Pressure Fuel System		Plate M
● VBHE0983	VBHE1374	

Item	Part No.	References	Qty.	Description	Notes
1	35844015		1	FUEL PIPE	
2	└─ 33532128		1	NUT	
3	└─ 33811113		1	OLIVE	
4	└─ 33532128		1	NUT	
5	└─ 33811113		1	OLIVE	
6	35843304		1	FUEL PIPE	
7	└─ 33532128		1	NUT	
8	└─ 33811113		1	OLIVE	
9	33225413		1	UNION NUT	
10	33811115		1	OLIVE	
11	0201091		1	CONNECTION	
12	0095332		1	BOLT	
13	0920154		1	WASHER	
14	0920154		1	WASHER	
15	36651119		1	CLIP	
16	35843303		1	FUEL PIPE	
17	└─ 33532128		1	NUT	
18	└─ 33811113		1	OLIVE	
19	33225413		1	UNION NUT	
20	33811115		1	OLIVE	
21	0201091		1	CONNECTION	
22	0095332		1	BOLT	
23	0920154		1	WASHER	
24	0920154		1	WASHER	
25	3425T001		1	FUEL PIPE	
26	33225412		1	UNION NUT	
27	33811112		1	OLIVE	
28	33225412		1	UNION NUT	
29	33811112		1	OLIVE	
30	0201397		1	CONNECTION	
31	0095344		1	BOLT	
32	0920146		1	WASHER	
33	0920146		1	WASHER	
34	35833615		1	FUEL PIPE	
35	0576113		1	NUT	
36	0566003		1	OLIVE	
37	0920465		1	SPACER	
38	0746454		1	SETSCREW	
39	0920054		1	WASHER	

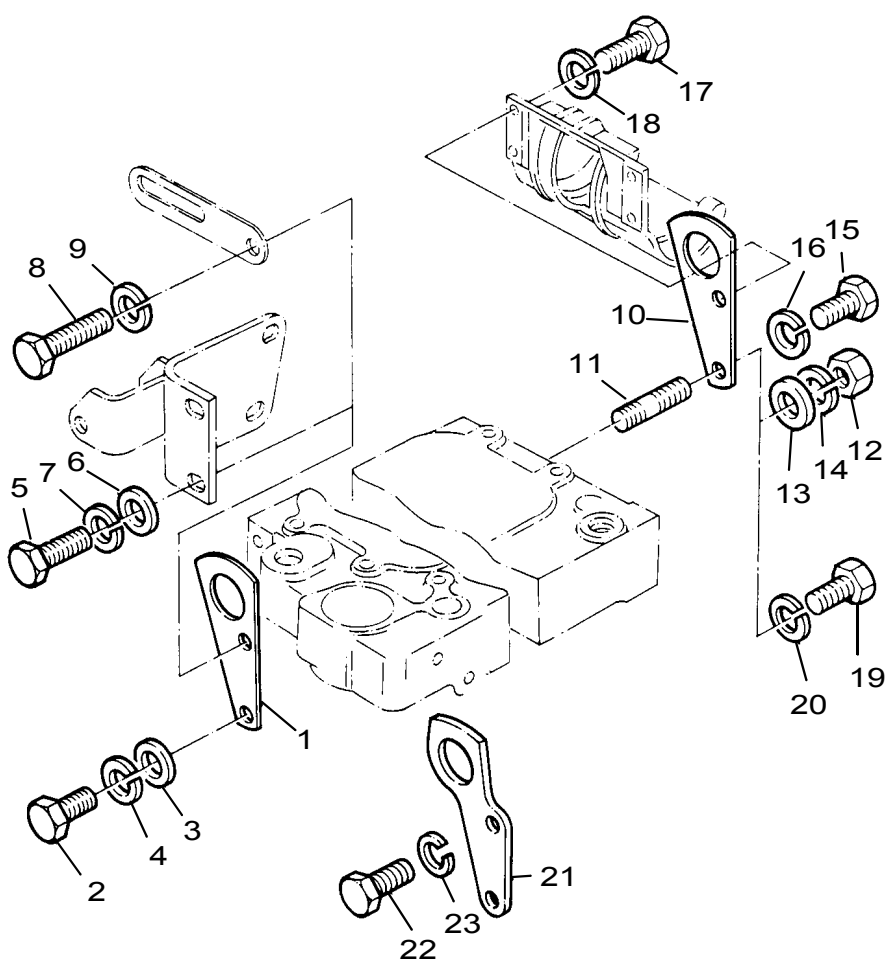
WDHE0030



Cold Start System		Plate A
		WDHE0030

Item	Part No.	References	Qty.	Description	Notes
7	33817508	●○ 33817507	1	ADAPTOR	
8	2815784		1	TERMINAL	
9	2666108		1	INTAKE HEATER	

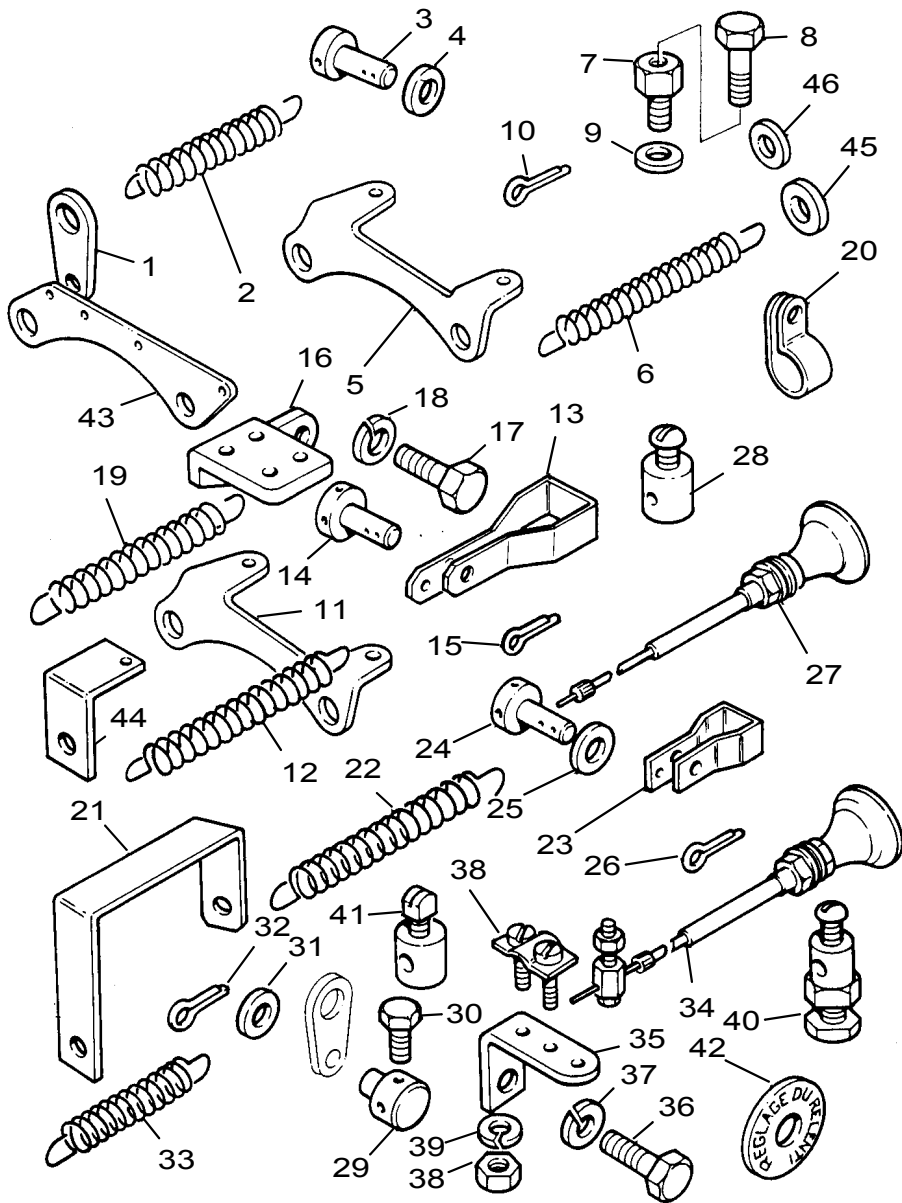
XBHE0223



Engine Lifting		Plate A
		XBHE0223

Item	Part No.	References	Qty.	Description	Notes
1	36177427		1	PLATE	
10	36177427		1	PLATE	
15	0746452		2	SETSCREW	
16	0920054		2	WASHER	

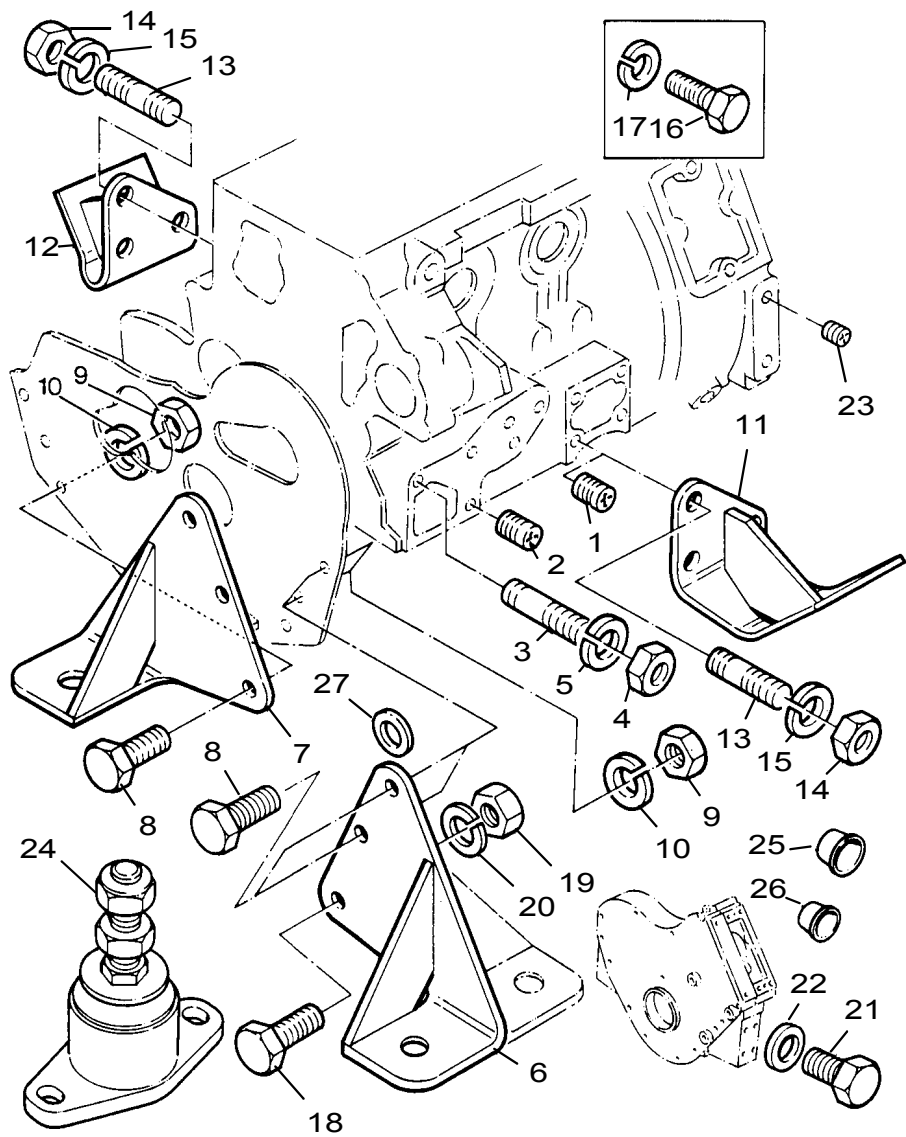
ZAHE0244



Throttle & Stop Controls		Plate A
		ZAHE0244

Item	Part No.	References	Qty.	Description	Notes
11	38152107		1	BRACKET	
12	31753116		1	STOP SPRING	
13	0996525		1	FORK	
14	0610837		1	PIN	
15	0610042		1	PIN	
19	31753115		1	SPRING	
35	36444324		1	BRACKET	
38	0180515		1	CLIP	

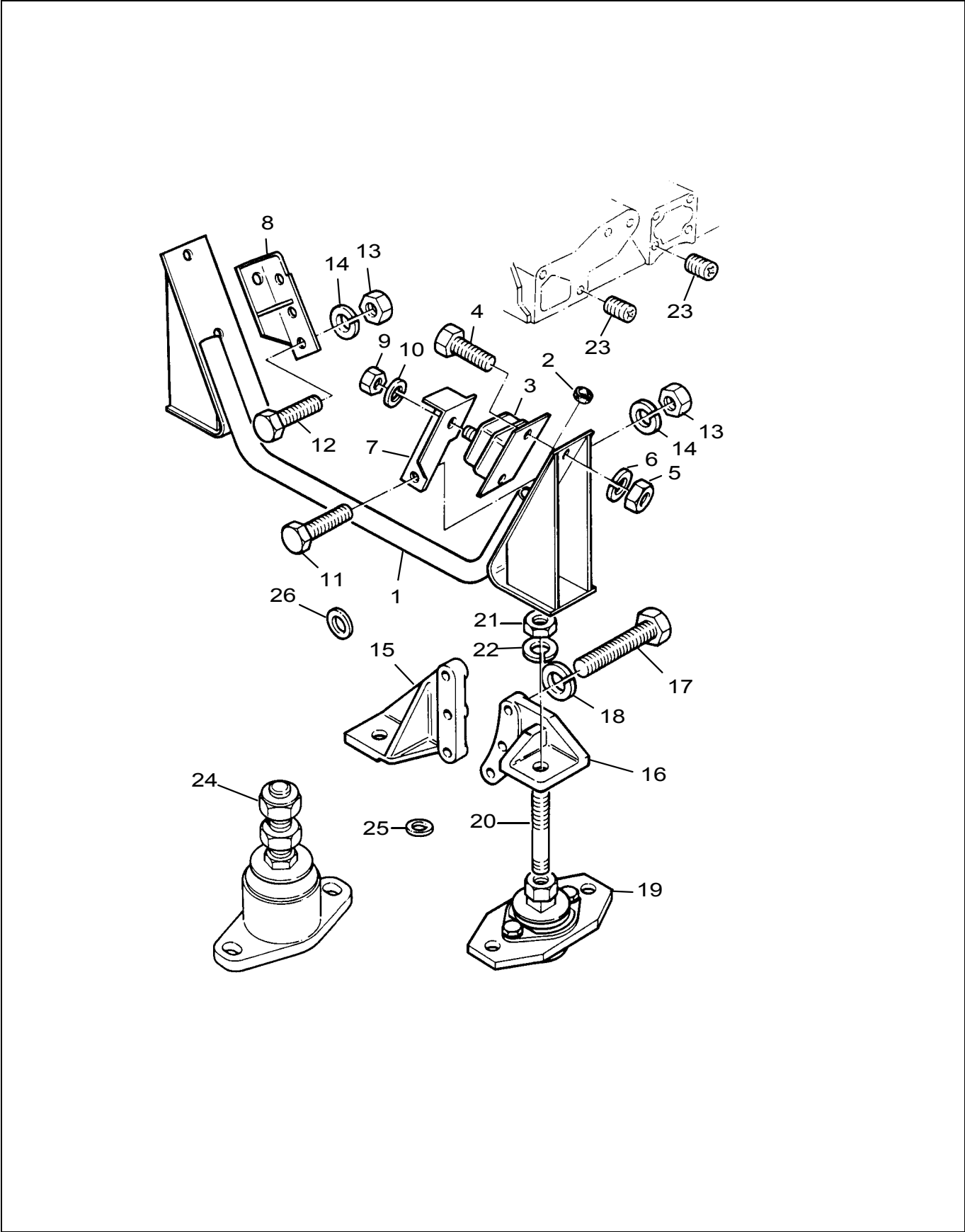
ZCHE0377



Mountings (Front & Rear)		Plate A
		ZCHE0377

Item	Part No.	References	Qty.	Description	Notes
1	32114481		1	PLUG	
2	32114481		1	PLUG	
6	38124252	●○ 38124249	1	BRACKET	(A)
7	38124253	●○ 38124251	1	BRACKET	(B)
8	0746254		5	SETSCREW	(C)
8	0746255		5	SETSCREW	(D)
9	0576002		5	NUT	
10	0920053		5	WASHER	
18	0746255		1	SETSCREW	(C)
18	0746211		1	BOLT	(D)
19	0576002		1	NUT	
20	0920053		1	WASHER	
27	3311N011		4	WASHER	(D)

Footnotes	
(A)	WAS 38124249.USE 38124252/38124253/0746255-5/0746211/3311N011-4.
(B)	WAS 38124251.USE 38124253/38124252/0746255-5/0746211/3311N011-4.
(C)	USED ONLY WITH BRACKET 38124249 AND 38124251.
(D)	USED ONLY WITH BRACKET 38124252 AND 38124253.

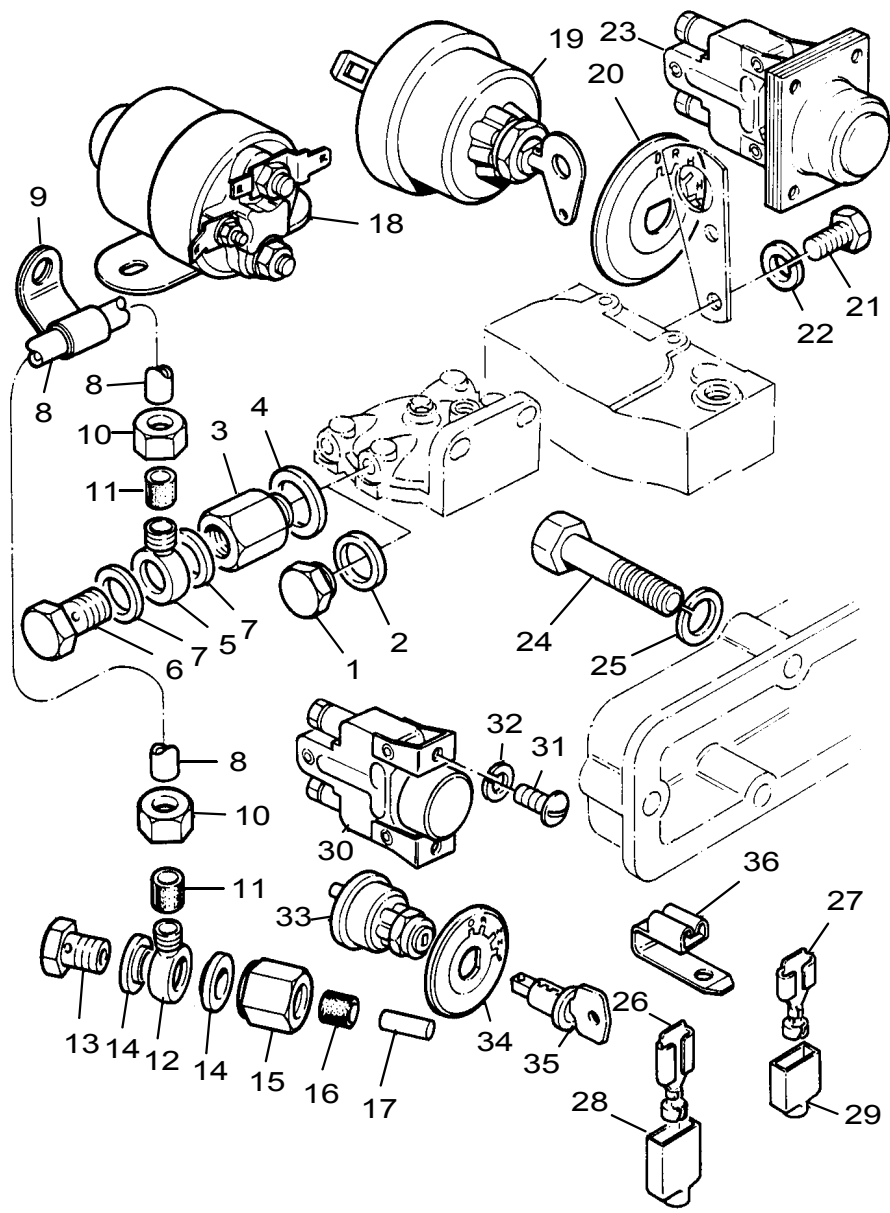


Mountings (Front & Rear)		Plate B
		ZCHE0377

Item	Part No.	References	Qty.	Description	Notes
15	38133563	●○ 38133562	1	BRACKET	(A)
16	38133583	●○ 38133582	1	BRACKET	(B)
17	0748524		6	SCREW	
18	0920054		6	WASHER	
26	3311N011		4	WASHER	(C)

Footnotes	
(A)	WAS 38133562.USE 38133563/38133583/3311N011-4.
(B)	WAS 38133582.USE 38133583/38133563/3311N011-4.
(C)	USED ONLY WITH BRACKET 38133563 AND 38133583.

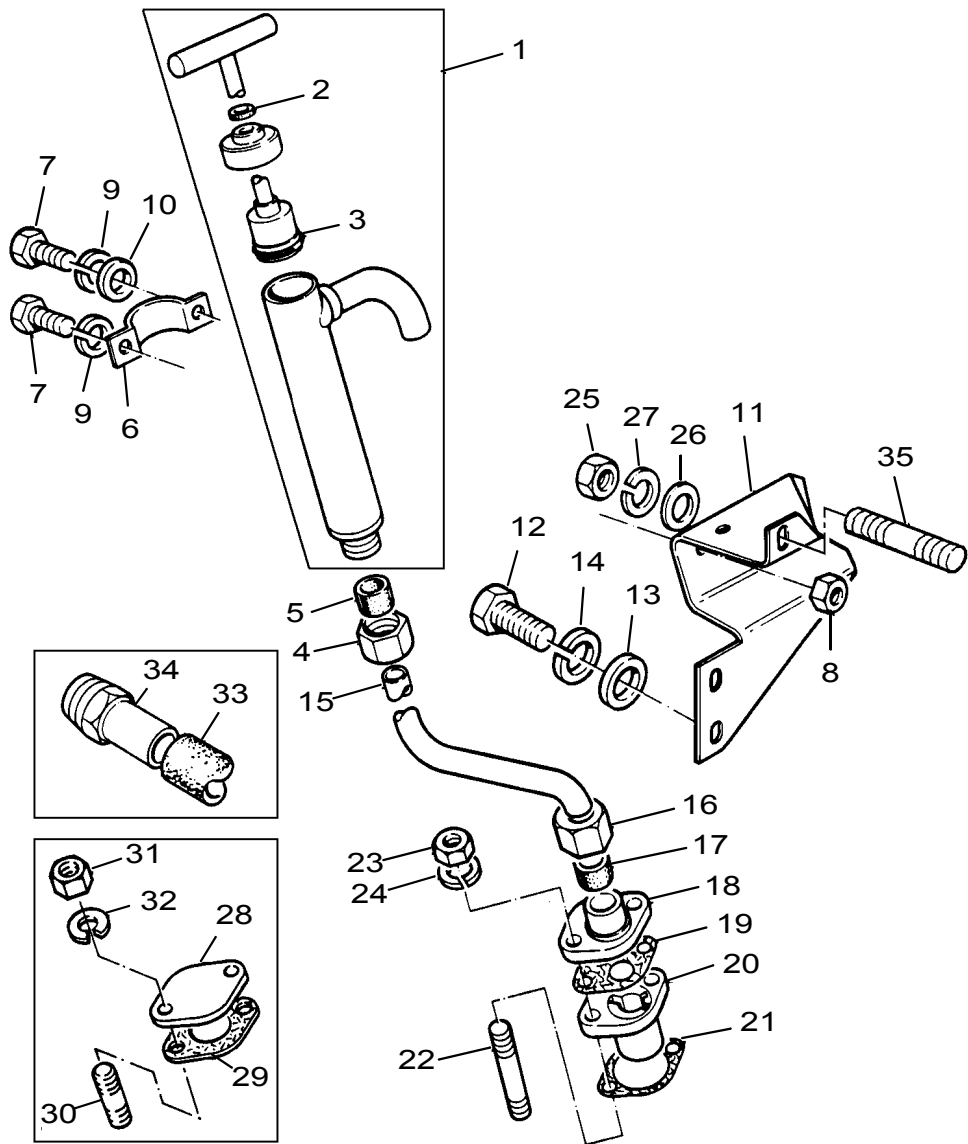
ZEHE0717



Heater/Starter Switch		Plate A
		ZEHE0717

Item	Part No.	References	Qty.	Description	Notes
3	2658207		1	NON RETURN VALVE	
4	0920154	●○ 2411141	1	WASHER	
5	0201099		1	CONNECTION	
6	0095332		1	BOLT	
7	0920127		2	WASHER	
8	34414902		1	FUEL PIPE	
10	33225412		2	UNION NUT	
11	33811112		2	OLIVE	
12	0201099		1	CONNECTION	
13	32184336		1	BOLT	
14	33817129		2	WASHER	
15	33287516		1	ADAPTOR	
16	33811112		1	OLIVE	
17	33241318		1	SLEEVE	

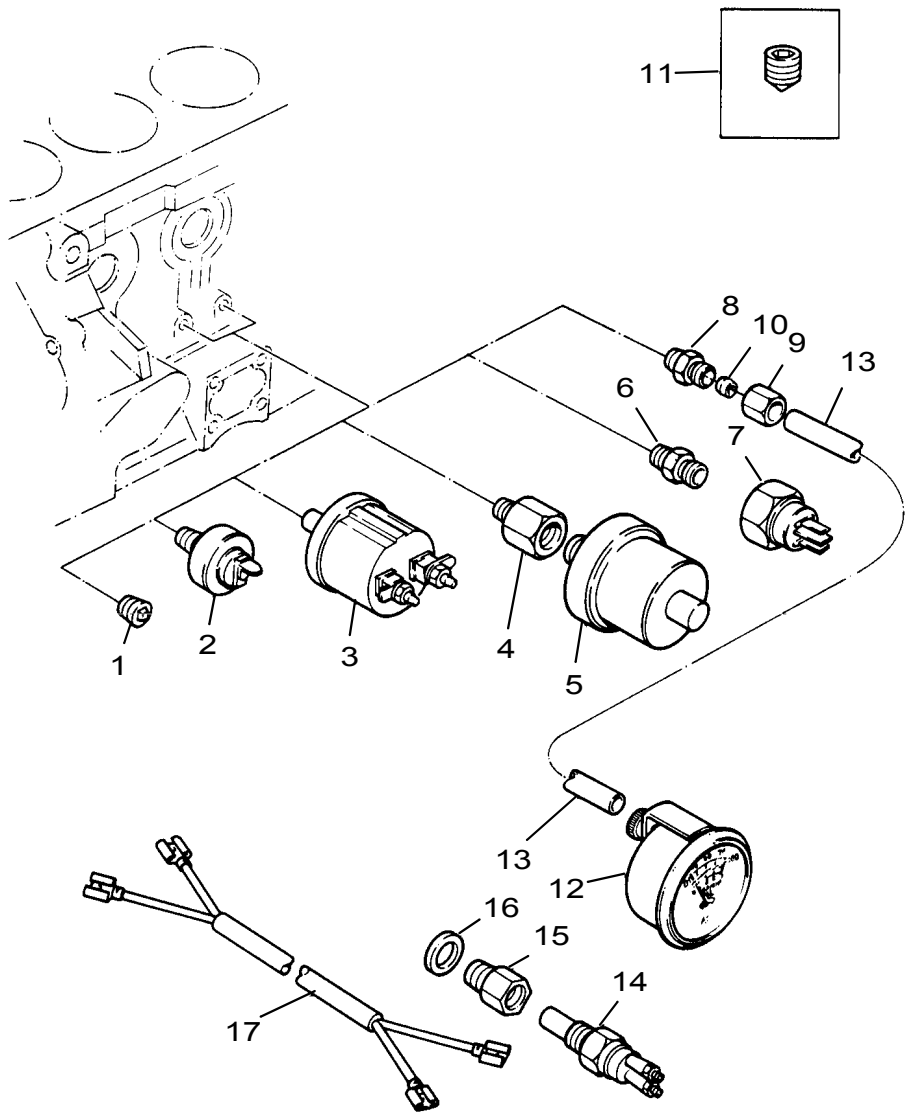
ZGHE0011



ZGHE0011

Item	Part No.	References	Qty.	Description	Notes
1	2488460	●○ 2488458	1	OIL SUMP DRAIN PUMP	
2	└ 24889902		1	SEAL - O RING	
3	└ 24889901		1	SEAL - O RING	
4	0576117		1	NUT	
5	0566008		1	OLIVE	
6	36612119		1	CLAMP	
7	0746051		2	SCREW	
8	0576001		2	NUT	
9	0920052		2	WASHER	
10	0920002		1	WASHER	
11	36671138		1	BRACKET	
12	2182117	●○ 0745180	2	SCREW	
13	0920006		2	WASHER	
14	0920055		2	WASHER	
15	35115106		1	OIL PIPE	
16	0576117		1	NUT	
17	0566008		1	OLIVE	
18	37535151		1	ADAPTOR	
19	36833115		1	GASKET	
20	37535149		1	POSITIONER	
21	36833115		1	GASKET	
22	0827619		2	STUD	
23	0576002		2	NUT	
24	0920053		2	WASHER	
25	0576002		1	NUT	
26	0920003		1	WASHER	
27	0920053		1	WASHER	

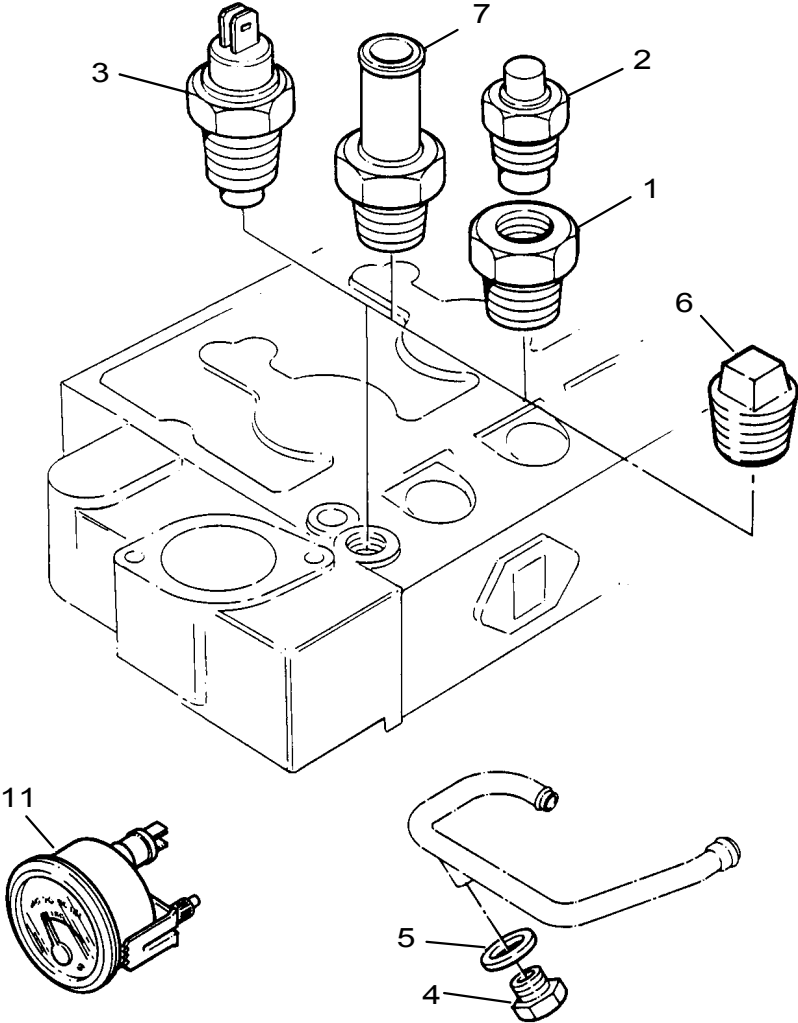
ZJHE0321



Lub. Oil Pressure Switch & Gauge		Plate A
		ZJHE0321

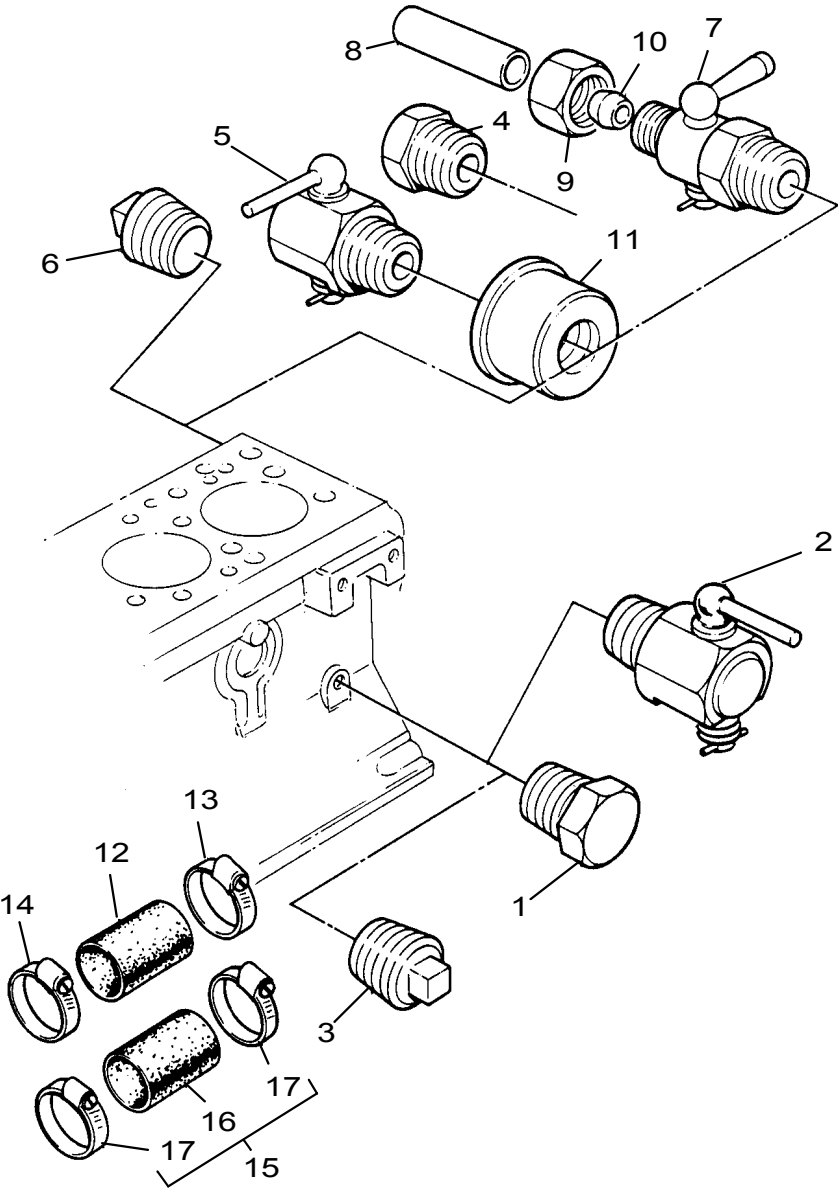
Item	Part No.	References	Qty.	Description	Notes
1	0650594	●○ 2431131	1	PLUG	

ZLHE0112



Temperature Gauge & Sender					Plate A
			ZLHE0112		
Item	Part No.	References	Qty.	Description	Notes
6	0650540		2	PLUG	

ZMHE0156

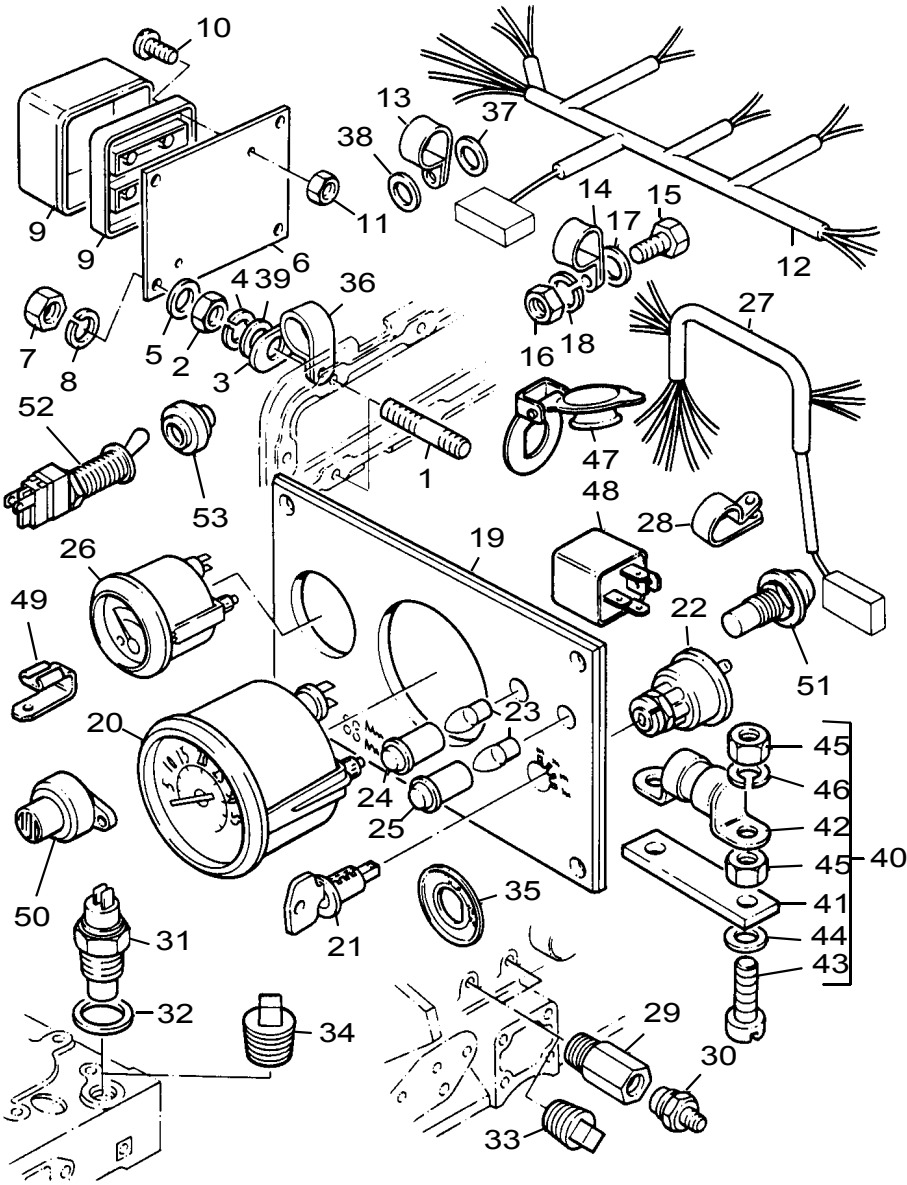


Radiator & Cowling		Plate A
		ZMHE0156

Item	Part No.	References	Qty.	Description	Notes
3	2431102		1	PLUG	
4	32161114	●○ 2461163	1	PLUG	

● ZNHE0120

ZNHE0148

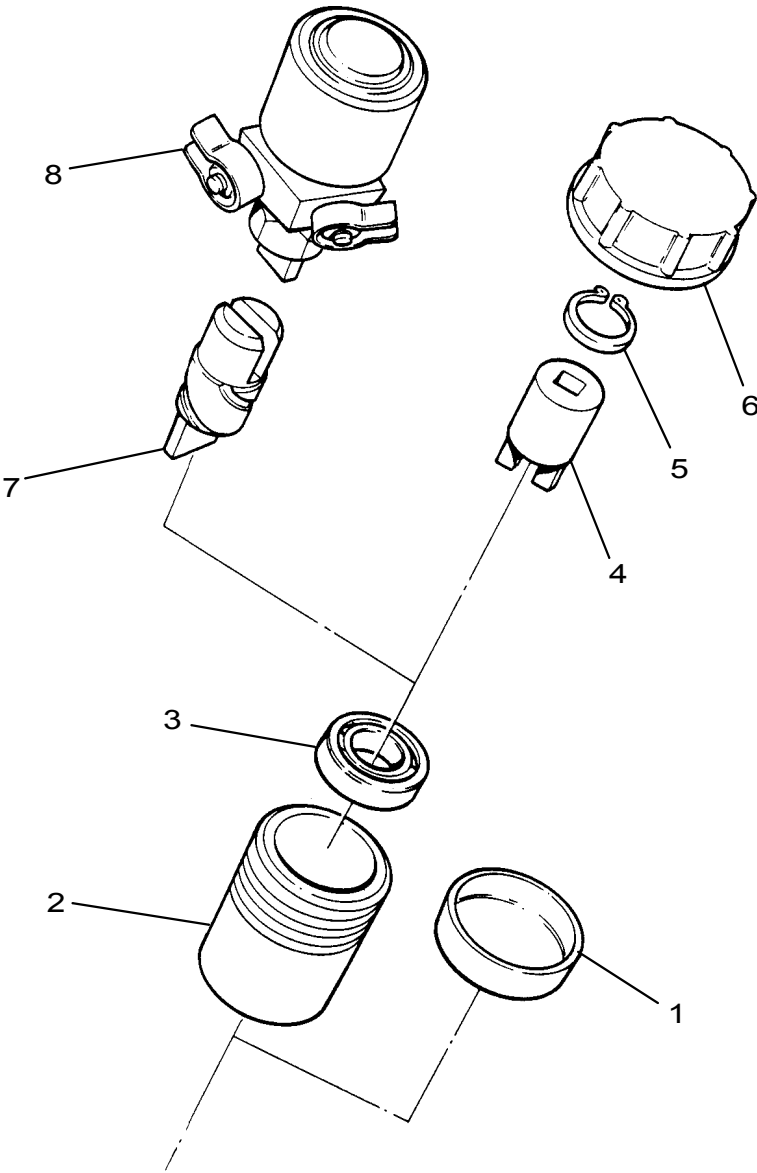


Instrumentation Assembly		Plate B
●○ ZNHE0120		ZNHE0148

Item	Part No.	References	Qty.	Description	Notes
1	0826249		1	STUD	
2	0576002		1	NUT	
3	36151505		1	WASHER	
4	0920053		1	WASHER	
33	0650594	●○ 2431131	1	PLUG	
34	0650540		1	PLUG	
40	4173A001		1	FUSE	
41	— 3684U003		1	STRIP	(A)
42	— PF65133	●○ 2841231	1	FUSE	
43	— 2163745	●○ 2163747	2	SCREW	
44	— 2131109		2	WASHER	
45	— 2168519		2	NUT	(B)
46	— 0920052	●○ 2134105	2	WASHER	

Footnotes	
(A)	NO LONGER REQUIRED,USE SCREWS 2163745,WASHER 0920052 AND DELETE TWO NUTS 2168519.
(B)	4 - REQUIRED ONLY WHEN INSULATING STRIP IS FITTED.2 - REQUIRED WHEN INSULATING STRIP IS NOT FITTED.

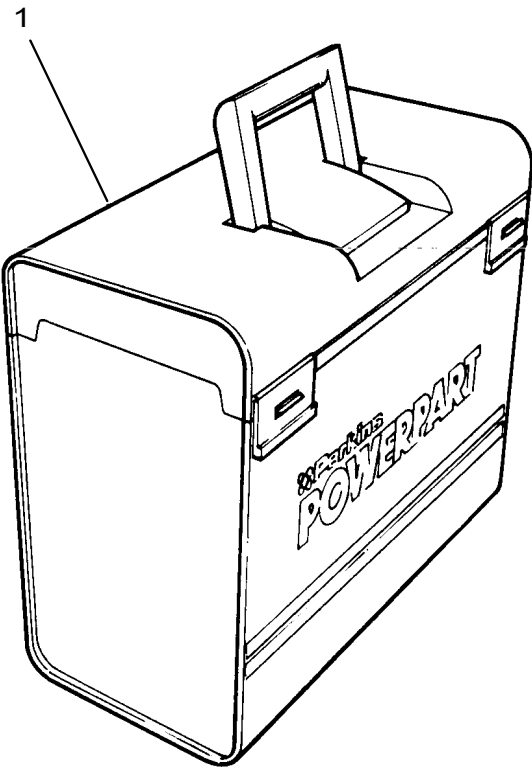
ZQHE0351



Tachometer & Hour Recorder		Plate A
		ZQHE0351

Item	Part No.	References	Qty.	Description	Notes
2	0770101		1	SLEEVE	
3	0050358		1	BALL BEARING	
6	32813106		1	CAP NUT	
7	33571001		1	ADAPTOR	

ZZUE0100

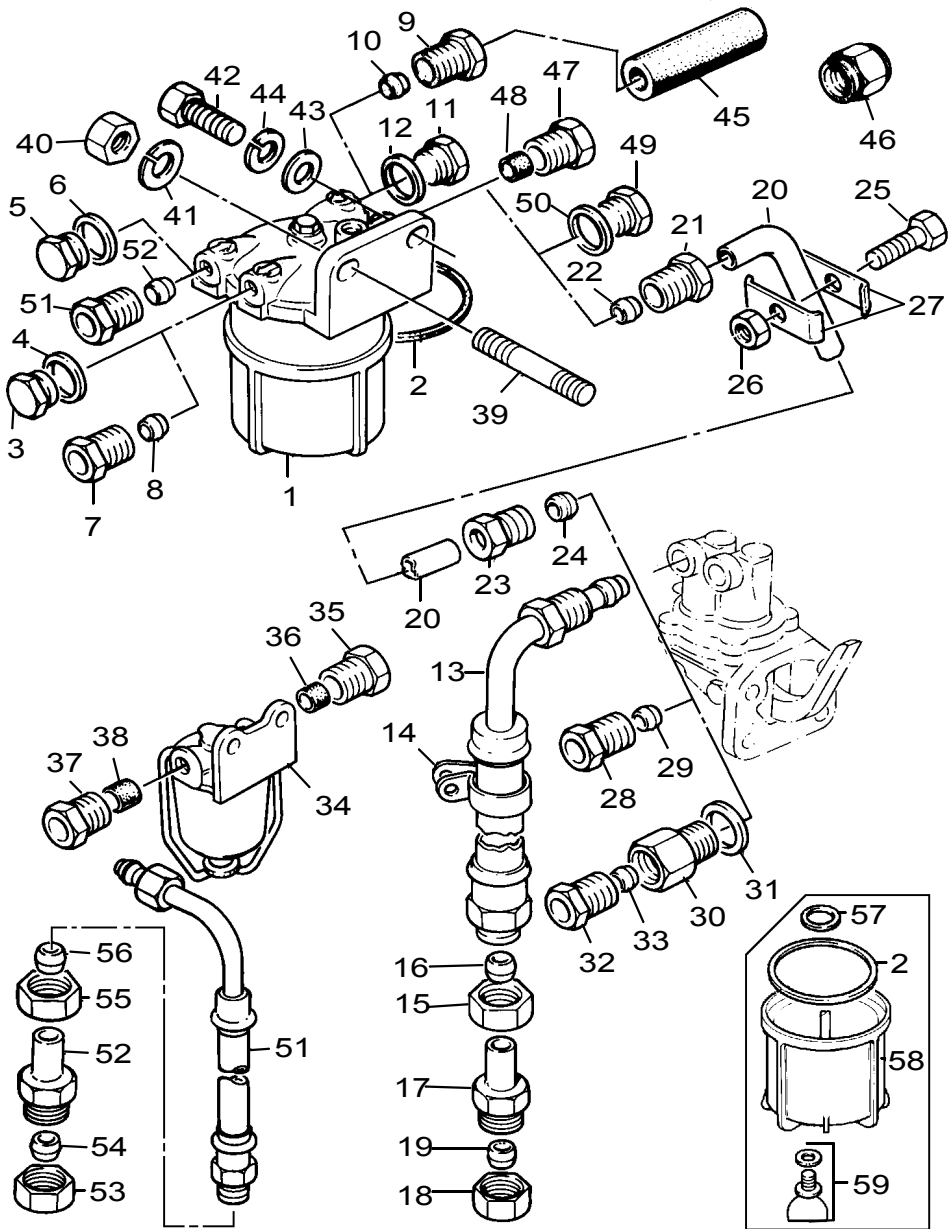


Application Miscellaneous & Auxiliaries		Plate H
		ZZUE0100

Item	Part No.	References	Qty.	Description	Notes
1	U5MK0012		X	KIT,ONBOARD REP.	(A)
2	U5MK0011		X	KIT,ONBOARD REP.	

Footnotes	
(A)	COMPONENT PARTS NOT ILLUSTRATED

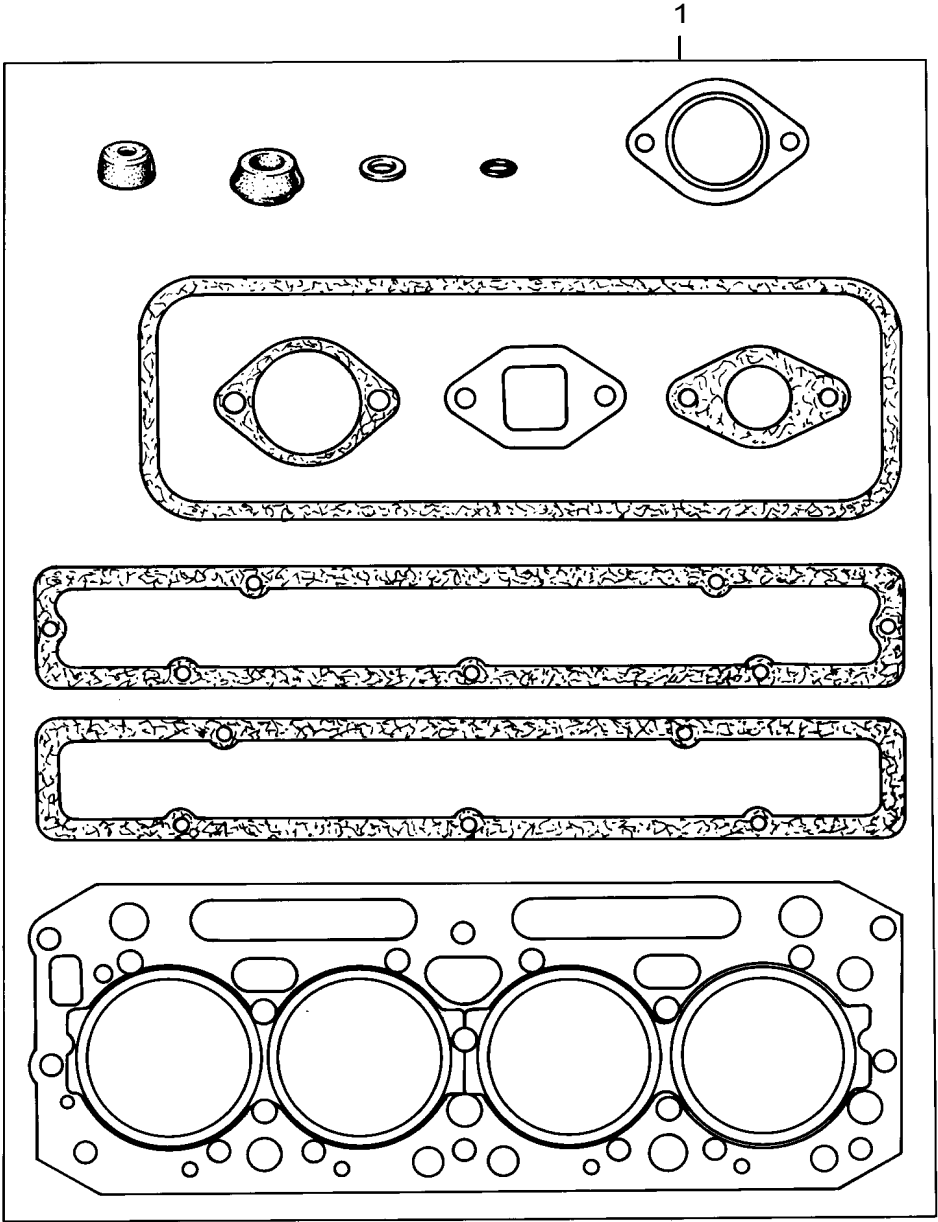
ZVHE0367



Fuel Pre-Lift Pump	Plate A
	ZVHE0367

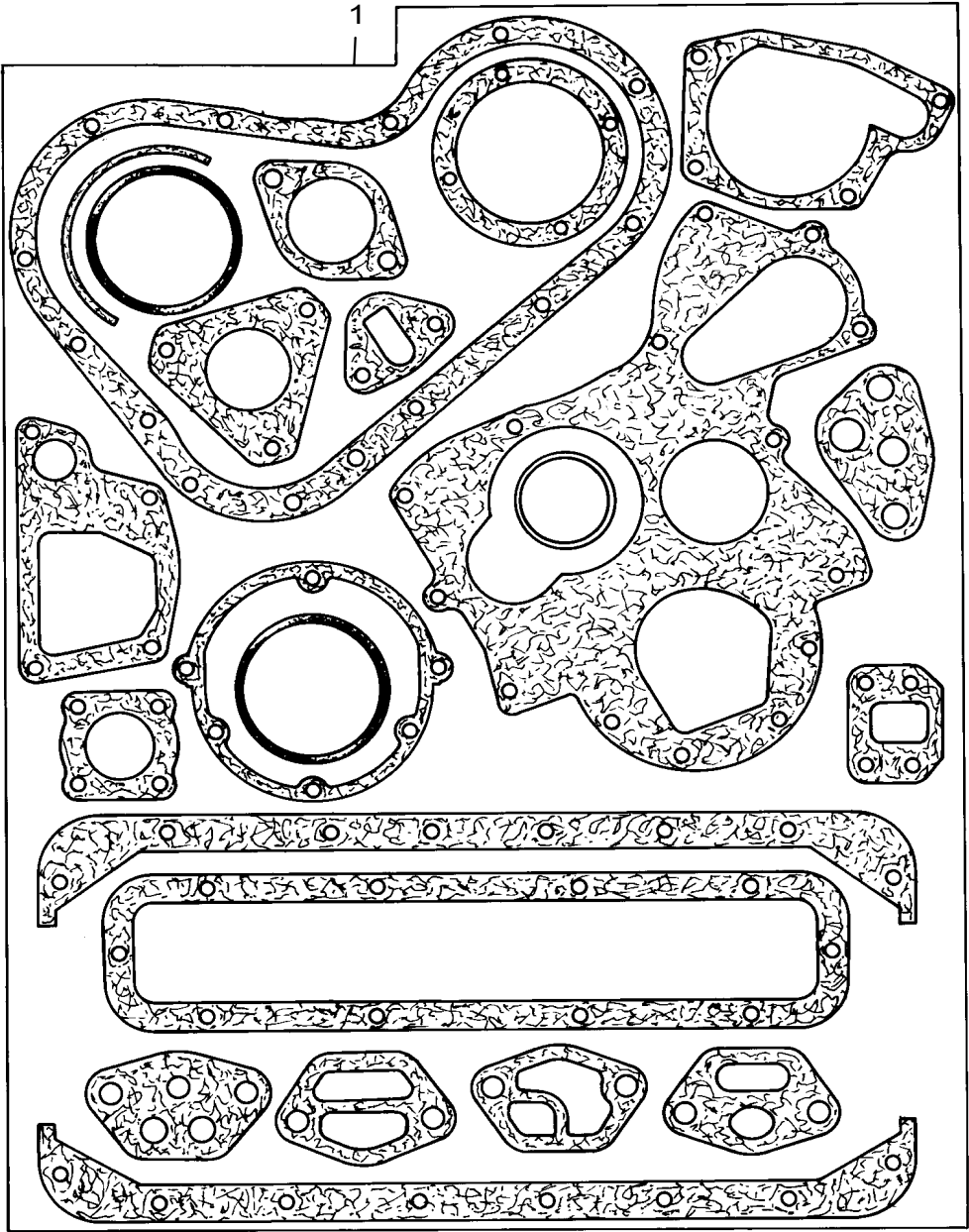
Item	Part No.	References	Qty.	Description	Notes
1	2656088		1	PRE-FUEL FILTER ASSY	
2	└ 0490786		2	SEAL	
3	0650204		1	PLUG	
4	0920154		1	WASHER	
5	0650204		1	PLUG	
6	0920154		1	WASHER	
7	33533112		1	NUT	
8	0566003		1	OLIVE	
9	33533112		1	NUT	
13	35833622		1	FUEL PIPE	
15	0576112		1	NUT	

SACE0032



Joints & Gaskets - Top Service Kit					Plate A
			SACE0032		
Item	Part No.	References	Qty.	Description	Notes
1	85786		X	JOINT AND GASKET KIT	

SGBE0087



Joints & Gaskets - Bottom Service Kit		Plate A
	SGBE0087	

Item	Part No.	References	Qty.	Description	Notes
1	U5LB0013		X	JOINT AND GASKET KIT	(A)

Footnotes	
(A)	WAS 68002/92454/92455

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	33514114	45
	33555131	45
	33571001	95
	33817508	73
	37535151	85
AIR PIPE	33435154	65
ALTERNATOR	2871A115	55
	2871A601	55
	2871A602	55
ALTERNATOR PULLEY	31141671	55
ARM	36537711	27
BALL BEARING	0040605	57
	0050358	95
BANJO BOLT	0095315	25
BELT	2614B133	55
	2614B636	55
BIG END BEARING KIT	85037	13
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	37444108	63
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